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STATISTICAL SUPPLEMENT

DEPARTMENT OF HEALTH

STATE OF HAWAII

This is the statistical supplement to the narrative report published in a separate volume.

Anyone needing additional information may write directly to the program concerned.

1983*

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Cover photo by Mr. George H. Tokuyama, State Registrar
Typical seascape between Hanauma Bay and Halona Blowhole Lookout, Southeastern Shore, Island of Oahu

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*Unless otherwise stated, data included in this report are for the calendar year 1983. Publication date, September 1984.

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RESEARCH AND STATISTICS OFFICE

VITAL STATISTICS SUMMARY, 1983

Population

The provisional estimate of the total resident population of the State of Hawaii as of July 1, 1983 was 1,023,200, an increase of 2.7 percent over the July 1, 1982 total of 996,700. The resident population of the state increased by 6.1 percent since the April 1, 1980 census.

The population of the United States increased 3.2 percent between the 1980 census and July 1, 1983.

Births

The upward trend in live births recorded which began in 1974 continued during 1983, when 19,164 live births were recorded for the state. The increase in live births over the previous year was 2.3 percent.

Births among the resident population of the state totaled 19,090, 2.2 percent above the 18,675 figure for 1982.

The crude resident birth rate was 18.7 per 1,000 population for 1983, the same as the 1982 rate. Crude birth rates above the state rate were observed for Maui County (20.3 per 1,000 population) and Kauai County (19.2). The crude birth rate was 18.5 per 1,000 population for both Honolulu County and Hawaii County. The estimated crude birth rate for the United States for 1983 was 15.5 for 1,000 population.

Multiple Births

There were 298 multiple births recorded in 1983 for the state and they constituted 1.6 percent of all live births. For 1982, the comparable figure was 1.8 percent.

There were two sets of triplets and 146 sets of twins in 1983.

Low Birthweight Babies

Low birthweight single live births (babies weighing 2,500 grams or less) totaled 1,194 or 6.4 percent of the 18,794 resident single live births for the year 1983. The low birthweight figure for 1982 was 6.6 percent.

The median weight of single live births was 7 pounds, 4 ounces (3,292 grams) for 1983 and 7 pounds, 4 ounces (3,278 grams) for 1982.

Attendant at Birth

A total of 286 live births, or 1.5 percent of the 19,164 live births recorded for 1983, occurred outside a hospital. The comparable figures for 1982 were 233 live births and 1.2 percent.

Of the 286 non-hospital births, 50 were births attended by a licensed physician, 5 by a licensed osteopath, 22 by a certified nurse-practitioner, and 13 by a naturopath.

Of the 18,878 live births occurring in hospitals, 18,128 (96.0 percent) were delivered by licensed physicians, 674 (3.6 percent) by licensed osteopaths, and 64 (0.3 percent) by certified nurse-practitioners.

Month of Prenatal Visit

No major changes were observed in the distribution of month of prenatal visit practice of mothers who gave birth to children in 1983. A total of 14,044, or 73.6 percent of the 19,090 resident mothers, made their first prenatal visit during the first trimester. Another 20.2 percent made their first visit during the second trimester, followed by 4.7 percent during the third trimester. A total of 123 mothers, or 0.6 percent, said they had no prenatal care.

Illegitimate Live Births

The 1983 illegitimate live birth rate for the state was 197.3 per 1,000, or 19.7 percent, as compared with 185.9 (18.6 percent) for 1982. This means that out of the 19,090 resident births, 3,766 were illegitimate.

Illegitimate live birth rates above the state rate were observed in Hawaii County (279.0 per 1,000 live births), Maui County (237.0), and Kauai County (236.8). The rate for Honolulu County was 179.9 per 1,000 live births.

Standard Fetal Deaths

Standard fetal deaths (spontaneous abortions) occurring in the resident population of the state in 1983 rose to 1,627 deaths from 1,618 in 1982. The resident standard fetal death ratio was 85.2 per 1,000 live births in 1983 as compared to 86.6 in 1982.

The 1983 standard fetal death ratio was 76.0 per 1,000 live births for Hawaii County, 86.1 for Honolulu County, 82.5 for Kauai County, and 89.5 for Maui County.

Elective Induced Abortions

The state resident induced abortion (intentional termination of pregnancy) ratio for 1983 was 313.9 per 1,000 live births, 5.1 percent below the 1982 ratio of 330.7. The downward trend began in 1982 after the ratio reached a high of 364.1 per 1,000 live births in 1981.

The highest 1983 resident induced abortion ratio was observed in Honolulu County (337.5 per 1,000 live births), followed by Kauai County (284.7), Maui County (270.4) and Hawaii County (182.2).

The median age for 1983 for women having an elective induced abortion was 24.1 years of age.

Infant Deaths

The 1983 resident infant death rate for the state was 9.2 per 1,000 live births based on 175 resident infant deaths. The comparable 1982 figures were an infant death rate of 8.5 per 1,000 live births based on 155 infant deaths.

The provisional 1983 infant death rate for the nation as a whole was 10.9 per 1,000 live births.

For 1983, the infant death rates were 9.5 per 1,000 live births for Honolulu County, 9.3 for Maui County, 8.8 for Hawaii County, and 3.6 for Kauai County. For 1982, the infant death rates were 8.6 for Honolulu County, 7.4 for Maui County, 7.1 for Hawaii County, and 10.8 for Kauai County.

Among the larger ethnic groups, infant death rates above the state rate were observed in the Part-Hawaiian group (10.1 per 1,000 live births), and Chinese (10.9). Ethnic groups with infant death rates below the state rate included the Caucasian (8.4), Filipino (8.5), and the Japanese (8.3).

The neonatal death rate (infant deaths below 28 days of age) for 1983 was 6.2 per 1,000 live births as compared to 5.6 for 1982.

Perinatal Mortality Rate

The 1983 state resident perinatal mortality rate--the sum of infant deaths under one week of age and standard fetal deaths of 20 weeks or more gestation, divided by perinatal events (sum of all resident live births and standard fetal deaths of 20 weeks of gestation and over)--was 13.9 per 1,000 perinatal events. The 1983 rate was 6.1 percent below the 1982 rate of 14.8 per 1,000 perinatal events.

Counties with rates above the state rate included Hawaii County (15.0 per 1,000 perinatal events) and Honolulu County (14.2), while counties below the state average included Kauai County (8.3) and Maui County (12.2).

Deaths

The number of deaths registered for the state in 1983 was 5,725, the highest ever recorded in modern times. The figure was 4.2 percent above the 5,495 deaths registered in 1982.

The resident deaths recorded for 1983 and 1984 were 5,409 and 5,123, respectively. The state resident crude death rates were 5.3 per 1,000 population for 1983 and 5.1 for 1982.

For the nation as a whole, the provisional crude death rate was 8.6 for 1983.

The 1983 crude death rate was 6.5 per 1,000 population for Kauai County, 5.8 for Maui County, 5.7 for Hawaii County, and 5.1 for Honolulu County. The 1982 crude death rates for the respective counties were 6.8, 6.0, 6.0, and 4.8.

Leading Causes of Death

The first seven leading causes of death for the year 1983 retained their same ranking as in 1982. These causes of death categories were: "Diseases of the Heart" (169.9 per 100,000 resident population), "Malignant Neoplasms" (126.2), "Cerebrovascular Diseases" (41.8), "All Accidents" (25.9), "Influenza and Pneumonia" (18.9), "Diabetes Mellitus" (11.0), and "Suicide" (9.0).

"Other Circulatory Diseases" (8.1 per 100,000 resident population) moved up to 8th place while "Perinatal Conditions" (6.9) moved downward to 9th place. "Congenital Anomalies" (6.5) moved upward to 10th place from its 1982 rank of 13th place. "Homicide" (5.0) attained the 13th rank while "Atherosclerosis" (4.2) dropped from the list of leading causes of death.

The first three leading causes of death accounted for 63.9 percent of all deaths in 1983. The 13 leading causes of death accounted for 84.5 percent of all deaths.

Deaths from "Diseases of the Heart" constituted 32.1 percent of all deaths in 1983 and 32.2 percent in 1973. Deaths from "Malignant Neoplasms," on the other hand, constituted 23.8 percent of all deaths in 1983 as compared with 20.6 percent in 1973.

Maternal Deaths

There were no maternal deaths in the state during 1983. There was a maternal death in 1982 as well as in 1981. The maternal death rates were 0.5 and 0.6 per 10,000 live births respectively for those years.

Marriages

The upward trend in marriages moderated in 1983, but the number of marriages recorded reached a new high of 14,062. The 1983 total was 4.3 percent above the 13,483 recorded in 1982.

The 1983 crude marriage rate was 13.7 per 1,000 population, 0.7 percent above the revised 1982 marriage rate of 13.5. The Hawaii crude marriage rate continues to be higher than the 1983 United States marriage rate of 10.5 per 1,000 population. Part of the high marriage rate was due to the large number of out-of-state couples who come to Hawaii to get married.

As in the past, the highest marriage rates observed in 1983 were in Kauai County (30.8 per 1,000 population) and Maui County (22.0). The crude marriage rates were 11.0 per 1,000 population for Hawaii County and 12.3 for Honolulu County.

Divorces

The 1983 crude divorce rate of 4.5 per 1,000 population represented an increase of 7.1 percent over the revised 1982 divorce rate of 4.2. The downward trend in the divorce rate which began in 1980 after reaching a peak of 5.5 per 1,000 population in 1979 ended in 1982.

The 1983 divorce rates were 5.1 per 1,000 population for Hawaii County, 4.9 for Maui County, 4.1 for Kauai County, and 4.4 for Honolulu County. The comparable 1982 divorce rates were 4.6 for Hawaii County, 4.3 for Maui County, 4.3 for Kauai County, and 4.2 for Honolulu County.

The 1983 divorce rate for the nation as a whole was 5.0 per 1,000 population.

TABLE 1

ESTIMATED POPULATION BY RESIDENCE AND MILITARY STATUS
State of Hawaii 1970, 1980 and 1983

	Resident Population				
	Total		Armed Forces 1/	Civilian 2/	
APRIL 1, 1970 (U.S. CENSUS)	Number	Percent	Number	Number	Percent
State Total	769,913	100.0	55,142	714,771	100.0
City & County of Honolulu	630,528	81.9	54,809	575,719	80.5
Hawaii County	63,468	8.2	140	63,328	8.9
Kauai County	29,761	3.9	134	29,627	4.1
Kauai Island	29,524	3.8	134	29,390	4.1
Niihau Island	237	0.0	-	237	0.0
Maui County 3/	46,156	6.0	59	46,097	6.5
Lanai Island	2,204	0.3	-	2,204	0.3
Maui Island	38,691	5.0	59	38,632	5.4
Molokai Island 3/	5,261	0.7	-	5,261	0.8
APRIL 1, 1980 (U.S. CENSUS)					
State Total	965,000	100.0	61,019	903,981	100.0
City & County of Honolulu	762,874	79.1	60,666	702,208	77.7
Hawaii County	92,053	9.5	162	91,891	10.2
Kauai County 4/	39,082	4.0	164	38,918	4.3
Maui County 3/	70,991	7.4	27	70,964	7.8
Lanai Island	2,119	0.2	-	2,119	0.2
Maui Island	62,823	6.5	27	62,796	6.9
Molokai Island 3/	6,049	0.6	-	6,049	0.7

	(Revised) PROVISIONAL POPULATION JULY 1, 1982		PROVISIONAL POPULATION JULY 1, 1983	
	Number	Percent	Number	Percent
State Total	996,700	100.0	1,023,245	100.0
City & County of Honolulu	777,500	78.4	796,035	77.8
Hawaii County	98,300	9.9	103,964	10.2
Kauai County 4/	40,900	4.1	43.562	4.2
Maui County 3/	80,000	8.0	79,684	7.8
Lanai Island	2,144	0.2	2,134	0.2
Maui Island	71,600	7.2	71,326	7.0
Molokai Island 3/	6,256	0.6	6,224	0.6

1/Includes Navy and Coast Guard crews
2/Includes military dependents (1970-61,858; 1980-64,023; 1983-66,300)
3/Includes Kalawao County (Kalaupapa 1970-172; 1980-144; 1982-144)
4/Estimate for Niihau Island: July 1, 1981-260; July 1, 1982-226

Source: Hawaii State Department of Planning and Economic Development, Statistical Report 147; Preliminary Intercensal Estimates, 1970-1980, July 9, 1981; Provisional Estimates of the Population of Hawaii, 1980-1982; Statistical Memorandum 83-4, May 4, 1983, Table 3, as revised; Preliminary Estimate of the Population of Hawaii, 1983, D.P.E.D.

FIGURE 1
BIRTHS OCCURRING IN HAWAII 1900-1983

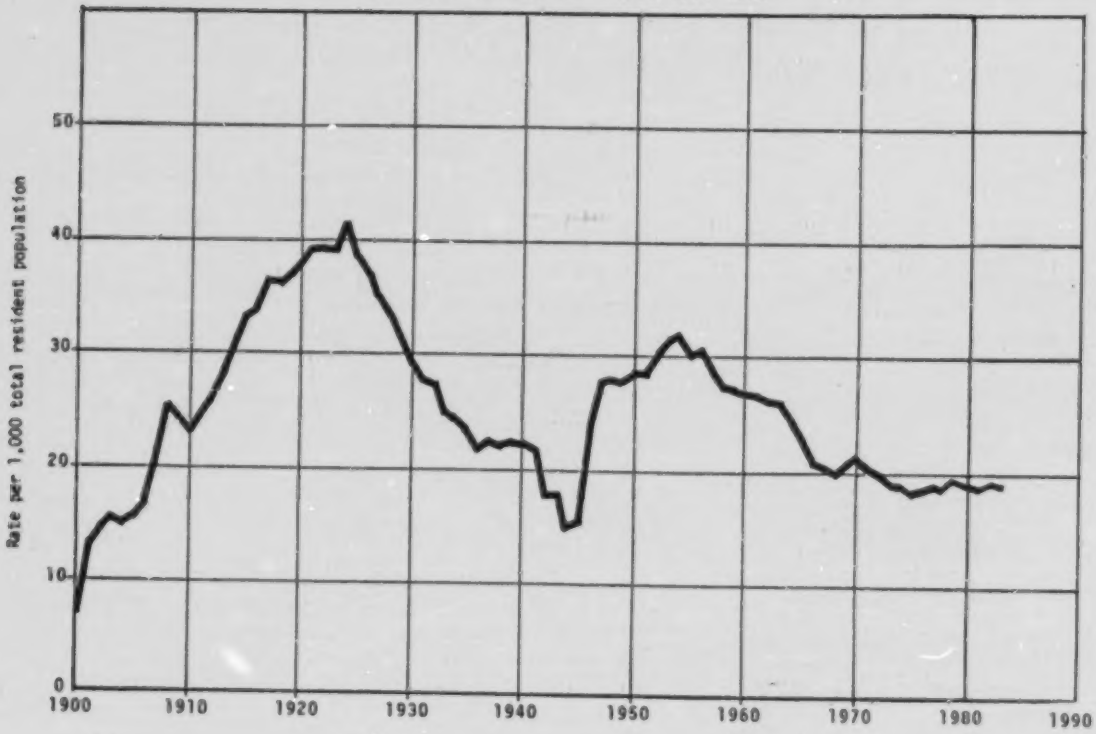


TABLE 2
LIVE BIRTHS BY PLACE OF OCCURRENCE REALLOCATED TO PLACE OF RESIDENCE AND RACE OF CHILD
STATE OF HAWAII, 1983

GEOGRAPHIC AREA	PLACE OF OCCURRENCE	BIRTH BY PLACE OF RESIDENCE NO.	RATE*	RACE OF CHILD: CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNESE	OTHER	UNKNOWN
TOTAL RECORDED	19164	19164	18.7	4565	65	5751	719	2829	2517	198	312	515	826	194	100	569	4
STATE OF HAWAII	19164	19090	18.7	4528	65	5747	715	2826	2509	198	311	514	819	194	100	560	4
COUNTY OF HAWAII	1875	1921	18.4	393	18	892	30	212	231	17	8	9	16	32	2	61	
CITY OF HILO	1178	637		47	4	350	9	47	114	7	4	3	10	11	1	30	
BALANCE OF COUNTY	697	1284		346	14	942	21	165	117	10	4	6	6	21	1	31	
COUNTY OF HONOLULU	14974	14712	18.5	3660	27	3878	650	2139	1970	164	292	498	792	107	97	434	4
CITY OF HONOLULU	13239	5906		1169	6	1324	456	940	994	38	188	231	233	42	74	211	
BALANCE OF COUNTY	1735	8806		2491	21	2554	194	1199	976	126	104	267	559	65	23	223	4
COUNTY OF KALAWAO		1					1										
COUNTY OF KAUAI	805	836	19.2	144	11	323	11	193	104	7	4	1	2	28		8	
ISLAND OF KAUAI	805	835		144	10	323	11	193	104	7	4	1	2	28		8	
ISLAND OF NIIHAU		1			1												
COUNTY OF MAUI	1510	1620	20.3	331	9	654	23	282	204	10	7	6	9	27	1	57	
ISLAND OF LANAI	11	35	16.4	1		14		17	2					1			
ISLAND OF MAUI	1421	1439	20.2	321	7	528	22	250	197	10	7	5	8	26	1	57	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	78	146	23.5	9	2	112	1	15	5			1	1				
NONRESIDENT		73		36		4	4	3	8		1	1	7			9	
UNKNOWN RESIDENCE		1		1													

*NUMBER OF BIRTHS PER 1,000 RESIDENT POPULATION

TABLE 3

LIVE BIRTHS BY PLACE OF OCCURRENCE REALLOCATED TO PLACE OF RESIDENCE AND RACE OF MOTHER
STATE OF HAWAII, 1983

GEOGRAPHIC AREA	PLACE OF OCCURRENCE	BIRTH BY PLACE OF RESIDENCE NO.	RATE*	RACE OF MOTHER CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL RECORDED	19164	19164	18.7	5981	152	4078	736	3054	2549	174	413	519	612	267	102	522	5
STATE OF HAWAII	19164	19090	18.7	5942	152	4075	731	3048	2542	174	412	518	608	267	102	514	5
COUNTY OF HAWAII	1875	1921	18.5	560	36	615	31	250	242	23	21	8	6	66	3	60	
CITY OF HILO	1178	637		87	15	232	13	73	129	8	11	3	4	31	2	29	
BALANCE OF COUNTY	697	1284		473	21	383	18	177	113	15	10	5	2	35	1	31	
COUNTY OF HONOLULU	14976	14712	18.5	4638	71	2793	672	2282	1984	133	372	500	599	131	98	384	5
CITY OF HONOLULU	13239	5906		1600	12	917	458	965	993	36	221	229	162	46	75	191	1
BALANCE OF COUNTY	1735	8806		3088	59	1876	214	1317	991	97	151	271	437	85	23	193	4
COUNTY OF KALAWAO		1					1										
COUNTY OF KAUAI	805	836	19.2	220	20	211	8	211	110	6	4	2		32	1	11	
ISLAND OF KAUAI	805	835		220	19	211	8	211	110	6	4	2		32	1	11	
ISLAND OF NIIHAU		1			1												
COUNTY OF MAUI	1510	1620	20.3	474	25	456	19	305	206	12	15	8	3	38		59	
ISLAND OF LANAI	11	35	16.4	2		11		20	2								
ISLAND OF MAUI	1421	1439	20.2	453	21	355	18	260	199	12	15	6	3	38		59	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	78	146	23.5	19	4	90	1	25	5			2					
NONRESIDENT		73		38		3	5	6	7		1	1	4			8	
UNKNOWN RESIDENCE		1		1													

*NUMBER OF BIRTHS PER 1,000 RESIDENT POPULATION

TABLE 4

LIVE BIRTHS BY RACE OF MOTHER AND TYPE OF CONGENITAL MALFORMATION
STATE OF HAWAII, 1983

TYPE OF CONGENITAL MALFORMATION	TOTAL	PERCENT	RACE OF MOTHER CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL	19,090	100.0	5,942	152	4,075	731	3,048	2,542	174	412	518	608	267	102	514	
PERCENT	100.0		31.1	.8	21.3	3.8	16.0	13.3	.9	2.2	2.7	3.2	1.4	.5	2.7	
NO MALFORMATION	18,869	98.8	5,896	152	4,015	720	3,003	2,523	173	402	510	605	257	100	508	
ONE OR MORE MALFORMATIONS	221	1.2	46		60	11	45	19	1	10	8	3	10	2	6	
ANENCEPHALUS (01)	5		2		2		1									
SPINA BIFIDA, MENINGOCELE (02)	5		2		2		1									
HYDROCEPHALUS (03)	4		1			2					1					
CIRCULATORY SYSTEM (06, 07)	24	.1	7		5	2	3	1		2	1	2			1	
CLEFT PALATE & HARELIP (09)	28	.1	5		6	2	5	6	1	1			2			
DIGESTIVE SYSTEM (10)	8		3		1		1	3								
GENITO-URINARY (11)	20	.1	6		2		5	1		2	1		1		2	
CLUBFOOT (12)	9		2		1		2				2				2	
BONE & JOINT (13, 14)	34	.2	7		13	1	4	1		1	2	1	2		2	
MULTIPLE ANOMALIES (16, 17, 18)	18	.1	4		5	1	4	2		1				1		
DOWNS DISEASE (15)	8		2		2		2	1						1		
OTHER AND UNSPECIFIED (RESIDUAL)	82	.4	14		26	3	20	6		4	2		5	1	1	

* IF ANY INFANT HAS MORE THAN ONE CONGENITAL MALFORMATION, THE SUM OF THE PERCENTAGES WILL BE GREATER THAN 100

TABLE 5

LIVE BIRTHS BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1983

GEOGRAPHIC AREA	TOTAL	PERCENT	MONTH OF BIRTH JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	UNK
TOTAL RECORDED	19164	100.0	1573	1401	1658	1536	1564	1561	1571	1633	1699	1666	1646	1656	
STATE OF HAWAII	19164	100.0	1573	1401	1658	1536	1564	1561	1571	1633	1699	1666	1646	1656	
PERCENT															
COUNTY OF HAWAII	1875	9.8	149	138	170	155	142	147	150	164	164	156	174	166	
CITY OF HILO	1178	6.1	100	84	108	103	98	92	85	100	87	110	109	102	
BALANCE OF COUNTY	697	3.6	49	54	62	52	44	55	65	64	77	46	65	64	
COUNTY OF HONOLULU	14974	78.1	1250	1080	1278	1181	1221	1237	1240	1283	1340	1292	1271	1301	
CITY OF HONOLULU	13239	69.1	1144	961	1133	1040	1084	1087	1083	1131	1175	1111	1133	1157	
BALANCE OF COUNTY	1735	9.1	106	119	145	141	137	150	157	152	165	181	138	144	
COUNTY OF KALAWAO															
COUNTY OF KAUAI	805	4.2	63	64	66	59	72	59	64	59	73	83	79	64	
ISLAND OF KAUAI	805	4.2	63	64	66	59	72	59	64	59	73	83	79	64	
ISLAND OF NIIHAU															
COUNTY OF MAUI	1510	7.9	111	119	144	141	129	118	117	127	122	135	122	125	
ISLAND OF LANAI	11	.1				5					1	1	1	3	
ISLAND OF MAUI	1421	7.4	106	114	136	130	121	111	108	117	115	126	118	119	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	78	.4	5	5	8	6	8	7	9	10	6	8	3	3	
NONRESIDENT															
UNKNOWN RESIDENCE															

TABLE 6

LIVE BIRTHS BY TYPE OF ATTENDANT AT BIRTH BY RACE OF CHILD BY PLACE OF BIRTH
STATE OF HAWAII, 1983

ATTENDANT	TOTAL	RACE OF CHILD CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL BIRTHS	19164	4568	39	5709	719	2833	2518	197	312	515	826	192	98	633	5
HOSPITAL a/	18878	4391	37	5670	714	2815	2508	195	311	509	818	191	96	618	5
MED DOC	18128	3982	37	5619	703	2735	2489	176	298	498	703	190	94	599	5
OSTEOPATH	674	381		32	7	71	10	19	10	11	113	1	2	17	
MIDWIFE d/	64	24		14	4	9	8		2		2			1	
OTHER	12	4		5			1		1					1	
NATUROPATH															
OTHER FACILITY b/	30	11		10	1	2	2			1	2			1	
MED DOC	19	4		8	1	1	1			1	2			1	
OSTEOPATH															
MIDWIFE d/	10	7		1		1	1								
OTHER	1			1											
NATUROPATH															
OTHER c/	256	166	2	29	4	16	8	2	1	5	6	1	2	14	
MED DOC	31	10	1	7	1	6	1			2			2	1	
OSTEOPATH	5	5													
MIDWIFE d/	12	8		1		1								2	
OTHER	195	133	1	20	3	8	6	2	1	3	6	1		11	
NATUROPATH	13	10		1		1	1								

a/ HOSPITALS AND LARGE DISPENSARIES
b/ SMALL DISPENSARIES, BIRTHING CENTERS
c/ AT HOME
d/ CERTIFIED NURSE-PRACTITIONER

TABLE 7

LIVE BIRTHS BY RACE OF FATHER AND OF MOTHER
STATE OF HAWAII, 1983

RACE OF MOTHER		ALL RACES		RACE OF FATHER													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
ALL RACES	NUMBER	19,090	100.0	5,406	186	3,089	644	2,638	2,422	234	224	458	801	298	62	503	2,125
	PERCENT	100.0		28.3	1.0	16.2	3.4	13.8	12.7	1.2	1.2	2.4	4.2	1.6	.3	2.6	11.1
CAUCASIAN		5,942	31.1	3,993	42	485	70	271	258	54	20	38	102	39	2	79	489
HAWAIIAN		152	.8	21	27	34		5	5			4	5	6		7	38
PART HAWN		4,075	21.3	381	83	1,546	63	437	289	60	19	84	53	127		88	847
CHINESE		731	3.8	103	2	82	331	20	128	5	7	4	3	6		9	31
FILIPINO		3,048	16.0	356	14	395	22	1,663	142	28	6	8	46	51		37	278
JAPANESE		2,542	13.3	260	4	316	125	150	1,472	6	25	7	13	23	1	17	123
PUERTO RCN		174	.9	21	1	24	1	6	5	65		3	7	6		5	30
KOREAN		412	2.2	88	2	32	15	13	84	3	141	1	4	5		5	19
SAMOAN		518	2.7	21	4	25	4	6	3	2	3	295	17	3		9	124
NEGRO		608	3.2	16				3	2	6		1	532			5	43
PORTUGUESE		267	1.4	25	5	92	8	40	18	5	2	3	3	32		5	29
VIETNAMESE		102	.5	14		3	1	1	1				1		59		22
OTHER		514	2.7	107	2	55	4	21	15		1	10	12			239	48
UNKNOWN		5											1				4
FATHER AND MOTHER OF SAME RACE		10,399	54.5	3,993	27	1,546	331	1,663	1,472	65	141	295	532	32	59	239	4

TABLE 8

LIVE BIRTHS BY RACE OF MOTHER AND MONTH OF FIRST PRENATAL VISIT
STATE OF HAWAII, 1983

RACE OF MOTHER		TOTAL NO. OF BIRTHS		MONTH OF FIRST PRENATAL VISIT											
		NUMBER	PERCENT	1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	NONE	NOT STATED	FIRST 3 MONTHS
ALL RACES	NUMBER	19,090	100.0	2,571	7,005	4,468	1,933	1,228	710	430	368	104	123	150	14,044
	PERCENT	100.0		13.5	36.7	23.4	10.1	6.4	3.7	2.3	1.9	.5	.6	.8	73.6
CAUCASIAN		5,942	31.1	844	2,253	1,484	612	337	189	92	78	24	32	17	4,561
HAWAIIAN		152	.8	14	38	22	28	15	10	9	10	1	4	1	74
PART HAWN		4,075	21.3	431	1,301	966	499	367	184	129	99	26	30	43	2,698
CHINESE		731	3.8	123	350	138	45	19	8	19	12	4	2	14	611
FILIPINO		3,048	16.0	396	1,068	757	311	230	112	65	60	10	11	28	2,221
JAPANESE		2,542	13.3	471	1,202	537	141	71	41	30	18	5	5	21	2,210
PUERTO RCN		174	.9	26	51	46	21	10	6	6	3	1		2	123
KOREAN		412	2.2	74	157	80	50	18	10	5	8	2	3	5	311
SAMOAN		518	2.7	30	93	101	60	58	65	33	39	11	19	9	224
NEGRO		608	3.2	64	197	166	76	44	28	12	10	5	3	3	427
PORTUGUESE		267	1.4	35	124	58	21	7	12	4	2	1	3		217
VIETNAMESE		102	.5	13	34	21	11	6	4	4	2	1		6	68
OTHER		514	2.7	49	135	111	56	45	41	22	27	13	11	4	295
UNKNOWN		5		1	2	1		1							4

TABLE 9

LIVE BIRTHS BY RACE OF MOTHER AND NUMBER OF CHILDREN BORN TO MOTHER
STATE OF HAWAII, 1983

RACE OF MOTHER		TOTAL NO. OF BIRTHS		TOTAL NUMBER OF CHILDREN BORN TO MOTHER												
		NUMBER	PERCENT	-1-	-2	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	12 OR MORE	UNK
ALL RACES	NUMBER	19,090	100.0	6,158	5,755	3,645	1,905	866	380	188	95	44	23	8	20	3
	PERCENT	100.0		32.3	30.1	19.1	10.0	4.5	2.0	1.0	.5	.2	.1		.1	
CAUCASIAN		5,942	31.1	1,968	1,836	1,124	545	270	113	46	17	14	3	1	4	1
HAWAIIAN		152	.8	30	38	35	23	7	9	5	4		1			
PART HAWN		4,075	21.3	1,297	1,017	781	493	236	112	69	36	11	11	3	8	1
CHINESE		731	3.8	266	231	128	67	25	6	4	3	1				
FILIPINO		3,048	16.0	982	930	613	299	124	51	23	8	5	5	1	7	
JAPANESE		2,542	13.3	880	886	488	192	56	25	8	5	2				
PUERTO RCN		174	.9	42	55	41	17	9	6	4						
KOREAN		412	2.2	135	136	74	40	15	7	3	1	1				
SAMOAN		518	2.7	140	126	80	74	47	16	17	9	4	2	2	1	
NEGRO		608	3.2	178	215	126	57	23	6		2	1				
PORTUGUESE		267	1.4	84	94	46	25	9	6	2		1				
VIETNAMESE		102	.5	22	30	24	12	5	6	1	2					
OTHER		514	2.7	134	161	82	60	40	17	6	8	4	1	1		
UNKNOWN		5				3	1									1

TABLE 10

LIVE BIRTHS BY RACE OF MOTHER AND NUMBER OF CHILDREN BORN ALIVE TO MOTHER
STATE OF HAWAII, 1983

RACE OF MOTHER		TOTAL NO. OF BIRTHS		TOTAL NUMBER OF CHILDREN BORN ALIVE												
		NUMBER	PERCENT	-1-	-2	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	12 OR MORE	UNK
ALL RACES	NUMBER	19,090	100.0	8,231	6,115	2,947	1,093	361	190	75	44	9	12	3	8	2
	PERCENT	100.0		43.1	32.0	15.4	5.7	1.9	1.0	.4	.2		.1			
CAUCASIAN		5,942	31.1	2,845	1,914	778	268	74	45	10	5	1	1		1	
HAWAIIAN		152	.8	40	45	33	13	8	11	1	1					
PART HAWN		4,075	21.3	1,603	1,137	741	349	124	59	32	15	4	6	1	3	1
CHINESE		731	3.8	327	257	109	28	7	2	1						
FILIPINO		3,048	16.0	1,207	996	562	174	59	22	12	8		4	1	3	
JAPANESE		2,542	13.3	1,233	894	322	70	12	6	3	2					
PUERTO RCN		174	.9	53	68	37	11	4	1							
KOREAN		412	2.2	209	136	48	16	1	2							
SAMOAN		518	2.7	156	129	85	66	39	21	10	6	3	1	1	1	
NEGRO		608	3.2	255	227	92	28	5	1							
PORTUGUESE		267	1.4	104	102	36	16	7	2							
VIETNAMESE		102	.5	27	32	24	10	3	4	1	1					
OTHER		514	2.7	172	177	78	43	18	14	5	6	1				
UNKNOWN		5			1	2	1									1

TABLE 11

LIVE BIRTHS BY AGE OF MOTHER AND NUMBER OF CHILDREN BORN
STATE OF HAWAII, 1983

AGE OF MOTHER	TOTAL	PERCENT	TOTAL NUMBER OF CHILDREN BORN TO MOTHER												
			-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	> 11	UNK
ALL AGES	19,090	100.0	6,158	5,755	3,645	1,905	866	380	188	95	44	23	8	20	3
PERCENT	100.0		32.3	30.1	19.1	10.0	4.5	2.0	1.0	.5	.2	.1		.1	
UNDER 15	14	.1	14												
15-17	564	3.0	462	85	16	1									
18-19	1,435	7.5	932	379	95	22	5	1	1						
20-24	6,187	32.4	2,302	2,116	1,099	445	159	48	11	3	1			1	2
25-29	5,882	30.8	1,562	1,832	1,267	704	308	116	56	20	10	3	1	2	1
30-34	3,678	19.3	722	1,051	844	521	255	133	77	40	14	9	4	8	
35-39	1,168	6.1	152	273	291	180	120	62	35	27	15	5	2	6	
40-44	155	.8	11	19	32	29	19	19	8	5	4	6	1	2	
45-49	7		1		1	3		1						1	
OVER 49															
UNKNOWN															

TABLE 12

LIVE BIRTHS BY AGE OF MOTHER AND NUMBER OF CHILDREN BORN ALIVE
STATE OF HAWAII, 1983

AGE OF MOTHER	TOTAL	PERCENT	TOTAL NUMBER OF CHILDREN BORN ALIVE												
			-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	> 11	UNK
ALL AGES	19,090	100.0	8,231	6,115	2,947	1,093	361	190	75	44	9	12	3	8	2
PERCENT	100.0		43.1	32.0	15.4	5.7	1.9	1.0	.4	.2		.1			
UNDER 15	14	.1	14												
15-17	564	3.0	503	56	5										
18-19	1,435	7.5	1,105	289	36	4	1								
20-24	6,187	32.4	3,054	2,138	743	199	39	11						1	2
25-29	5,882	30.8	2,237	1,986	1,067	415	119	38	14	3	2	1			
30-34	3,678	19.3	1,070	1,261	770	318	114	83	33	19	3	3	2	2	
35-39	1,168	6.1	226	350	293	132	70	48	23	16	2	5	1	2	
40-44	155	.8	21	34	32	23	18	9	5	6	2	3		2	
45-49	7		1	1	1	2		1						1	
OVER 49															
UNKNOWN															

TABLE 13

SINGLE LIVE BIRTHS BY WEIGHT AT BIRTH AND RACE OF CHILD
STATE OF HAWAII, 1983

WEIGHT AT BIRTH IN GRAMS		ALL RACES		RACE OF CHILD													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL		18,794	100.0	4,450	65	5,655	707	2,789	2,466	196	310	505	807	194	93	553	4
LOW BIRTH WEIGHT a/	NUMBER	1,194	6.4	227	7	372	46	243	146	9	16	14	76	16	4	18	
	PERCENT b/			1.2		2.0	.2	1.3	.8		.1	.1	.4	.1		.1	
UNDER 501		13	.1	2		6		1	1		1		2				
501 THRU 1000		52	.3	16		17	1	4	8		3		2			1	
1001 THRU 1500		97	.5	15	1	39	2	19	9	1		1	8	1		1	
1501 THRU 2000		178	.9	40		64	5	32	15		2		13	3	1	3	
2001 THRU 2500		854	4.5	154	6	246	38	187	113	8	10	13	51	12	3	13	
2501 THRU 3000		3,690	19.6	599	14	1,125	145	759	581	45	58	53	182	32	16	80	1
3001 THRU 3500		7,514	40.0	1,632	21	2,246	317	1,180	1,093	76	127	174	313	86	46	202	1
3501 THRU 4000		4,850	25.8	1,444	19	1,453	161	506	514	57	79	177	194	45	26	173	2
4001 THRU 4500		1,264	6.7	465	3	360	36	83	116	7	24	64	36	12	1	57	
4501 THRU 5000		234	1.2	68	1	83	2	17	14	2	4	16	6	2		19	
OVER 5000		37	.2	15		10			1		2	6				3	
UNKNOWN		11	.1			6		1	1			1		1		1	

MEDIAN WEIGHT, LB.OZ. 7- 4 GRAMS 3292

a/ INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
b/ PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 14

SINGLE LIVE BIRTHS BY WEIGHT AT BIRTH AND RACE OF MOTHER
STATE OF HAWAII, 1983

WEIGHT AT BIRTH IN GRAMS		ALL RACES		RACE OF MOTHER													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL		18,794	100.0	5,840	152	4,005	721	3,012	2,507	173	408	510	598	263	97	503	5
LOW BIRTH WEIGHT a/	NUMBER	1,194	6.4	308	9	267	45	264	160	8	22	13	60	17	4	17	
	PERCENT b/			1.6		1.4	.2	1.4	.9		.1	.1	.3	.1		.1	
UNDER 501		13	.1	2		5		1	2		1		2				
501 THRU 1000		52	.3	21		14	2	4	5		3		1	1		1	
1001 THRU 1500		97	.5	28	1	28	2	21	6	1		1	5	2		2	
1501 THRU 2000		178	.9	51	1	43	3	40	20		3		12	3	1	1	
2001 THRU 2500		854	4.5	206	7	177	38	198	127	7	15	12	40	11	3	13	
2501 THRU 3000		3,690	19.6	804	30	812	155	819	606	40	74	49	140	63	16	81	1
3001 THRU 3500		7,514	40.0	2,204	54	1,604	308	1,245	1,118	68	172	174	238	101	49	178	1
3501 THRU 4000		4,850	25.8	1,849	43	999	172	571	497	42	108	186	137	63	26	155	2
4001 THRU 4500		1,264	6.7	572	12	253	37	92	108	13	26	65	18	17	1	49	1
4501 THRU 5000		234	1.2	36	2	58	4	20	17	2	3	16	5	1	1	19	
OVER 5000		37	.2	17	1	7					3	6				3	
UNKNOWN		11	.1		1	5		1	1			1		1		1	

MEDIAN WEIGHT, LB.OZ. 7- 4 GRAMS 3292

a/ INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
b/ PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 15

SINGLE MALE LIVE BIRTHS BY WEIGHT AND GESTATION PERIOD
STATE OF HAWAII, 1983

WEIGHT AT BIRTH IN GRAMS		TOTAL	PERCENT	GESTATION PERIOD IN WEEKS						
				UNDER 20	20-27	28-35	36-39	40	OVER 40	UN-KNOWN
TOTAL		9,729	100.0	3	51	584	4,392	1,936	2,538	225
LOW BIRTH WEIGHT a/	NUMBER	594	6.1	1	41	234	227	25	32	34
	PERCENT b/				.4	2.4	2.3	.3	.3	.3
UNDER 501		6	.1		6					
501 THRU 1000		30	.3		16	11				3
1001 THRU 1500		52	.5	1	13	33				5
1501 THRU 2000		103	1.1		5	68	24	1	2	3
2001 THRU 2500		403	4.1		1	122	203	24	30	23
2501 THRU 3000		1,672	17.2		3	133	1,007	224	262	43
3001 THRU 3500		3,758	38.6		3	137	1,829	785	934	70
3501 THRU 4000		2,701	27.8	1	4	62	1,028	662	892	52
4001 THRU 4500		805	8.3			12	236	206	333	18
4501 THRU 5000		171	1.8			4	53	31	77	6
OVER 5000		23	.2			2	9	3	7	2
UNKNOWN		5	.1	1			3		1	

MEDIAN WEIGHT, LB.OZ. 7- 6 GRAMS 3337

a/ INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
b/ PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 16

SINGLE FEMALE LIVE BIRTHS BY WEIGHT AND GESTATION PERIOD
STATE OF HAWAII, 1983

WEIGHT AT BIRTH IN GRAMS		TOTAL	PERCENT	GESTATION PERIOD IN WEEKS						
				UNDER 20	20-27	28-35	36-39	40	OVER 40	UN-KNOWN
TOTAL		9,065	100.0	4	38	434	3,832	1,923	2,653	181
LOW BIRTH WEIGHT a/	NUMBER	600	6.6		27	181	274	35	66	17
	PERCENT b/				.3	2.0	3.0	.4	.7	.2
UNDER 501		7	.1		5		1			1
501 THRU 1000		22	.2		14	7				1
1001 THRU 1500		45	.5		5	27	6		1	6
1501 THRU 2000		75	.8		1	44	18	4	5	3
2001 THRU 2500		451	5.0		2	103	249	31	60	6
2501 THRU 3000		2,018	22.3	1	5	120	1,069	348	432	43
3001 THRU 3500		3,756	41.4	2	3	74	1,619	876	1,107	75
3501 THRU 4000		2,149	23.7		2	46	733	537	796	35
4001 THRU 4500		459	5.1			10	119	113	209	8
4501 THRU 5000		63	.7			1	15	9	35	3
OVER 5000		14	.2				2	5	7	
UNKNOWN		6	.1	1	1	2	1		1	

MEDIAN WEIGHT, LB.OZ. 7- 3 GRAMS 3243

a/ INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
b/ PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 17

LIVE BIRTHS BY RACE, SEX, PLURALITY OF BIRTH, AND LOW BIRTH WEIGHT
STATE OF HAWAII, 1983

RACE OF CHILD	SINGLE AND PLURAL BIRTHS				SINGLE MALE BIRTHS			SINGLE FEMALE BIRTHS			PLURAL MALE BIRTHS			PLURAL FEMALE BIRTHS		
	TOTAL NO. OF BIRTHS	MALE	FEMALE	RATIO a/	TOTAL	LOW BIRTHWEIGHT b/ NO.	LOW BIRTHWEIGHT b/ PERCENT c/	TOTAL	LOW BIRTHWEIGHT b/ NO.	LOW BIRTHWEIGHT b/ PERCENT c/	TOTAL	LOW BIRTHWEIGHT b/ NO.	LOW BIRTHWEIGHT b/ PERCENT c/	TOTAL	LOW BIRTHWEIGHT b/ NO.	LOW BIRTHWEIGHT b/ PERCENT c/
ALL RACES	19,090	9,887	9,203	107.4	9,729	595	6.1	9,065	600	6.6	158	84	53.2	138	73	52.9
CAUCASIAN	4,528	2,369	2,159	109.7	2,320	112	4.8	2,130	115	5.4	49	21	42.9	29	15	51.7
HAWAIIAN	65	28	37	75.6	28	3	10.7	37	4	10.8						
PART HAWN	5,747	2,992	2,755	108.6	2,954	177	6.0	2,701	196	7.3	38	18	47.4	54	26	48.1
CHINESE	715	379	336	112.7	372	27	7.3	335	19	5.7	7	4	57.1	1		
FILIPINO	2,827	1,473	1,354	108.7	1,452	130	9.0	1,337	113	8.5	21	11	52.4	17	10	58.8
JAPANESE	2,509	1,269	1,240	102.3	1,241	71	5.7	1,225	75	6.1	28	18	64.3	15	7	46.7
PUERTO RCN	198	101	97	104.1	101	4	4.0	95	5	5.3				2	2	100.0
KOREAN	312	152	160	95.0	150	5	3.3	160	11	6.9	2	1	50.0			
SAMOAN	514	279	235	118.7	276	8	2.9	229	6	2.6	3	1	33.3	6	1	16.7
NEGRO	819	410	409	100.2	407	38	9.3	400	38	9.5	3	3	100.0	9	9	100.0
PORTUGUESE	194	95	99	95.9	95	8	8.4	99	8	8.1						
VIETNAMESE	98	54	44	122.7	49	4	8.2	44			5	5	100.0			
OTHER	560	282	278	101.4	280	8	2.9	273	10	3.7	2	2	100.0	5	3	60.0
UNKNOWN	4	4			4											

a/ NUMBER OF MALES PER 100 FEMALES
b/ INFANTS OF 2500 GRAMS (5 LB 8 OZ) OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
c/ PERCENT OF BIRTHS OF KNOWN WEIGHT ONLY

TABLE 18

LIVE BIRTHS BY RACE AND AGE OF MOTHER
STATE OF HAWAII, 1983

RACE OF MOTHER		ALL AGES		AGE OF MOTHER IN YEARS										
		NUMBER	PERCENT	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	OVER 49	UNKNOWN
ALL RACES	NUMBER	19,090	100.0	14	564	1,435	6,187	5,882	3,678	1,168	155	7		
	PERCENT	100.0		.1	3.0	7.5	32.4	30.8	19.3	6.1	.8			
CAUCASIAN		5,942	31.1		95	365	2,047	1,900	1,126	361	48			
HAWAIIAN		152	.8		5	15	54	44	22	9	3			
PART HAWN		4,075	21.3	5	259	547	1,580	1,035	488	146	14	1		
CHINESE		731	3.8		8	17	109	269	246	75	7			
FILIPINO		3,048	16.0	3	111	239	955	927	546	220	42	5		
JAPANESE		2,542	13.3	3	28	96	409	919	851	214	21	1		
PUERTO RCN		174	.9		9	18	72	53	19	2	1			
KOREAN		412	2.2		3	15	82	169	95	43	5			
SAMOAN		518	2.7	2	16	34	215	135	76	36	4			
NEGRO		608	3.2	1	7	41	344	160	49	6				
PORTUGUESE		267	1.4		8	24	112	80	32	10	1			
VIETNAMESE		102	.5		4		19	34	31	13	1			
OTHER		514	2.7		11	24	188	155	97	31	8			
UNKNOWN		5					1	2		2				

TABLE 19

LIVE BIRTHS BY AGE OF FATHER AND OF MOTHER
STATE OF HAWAII, 1983

AGE OF FATHER		ALL AGES		AGE OF MOTHER IN YEARS										
		NUMBER	PERCENT	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	OVER 49	UNKNOWN
ALL AGES	NUMBER	19,090	100.0	14	564	1,435	6,187	5,882	3,676	1,168	155	7		
	PERCENT	100.0		.1	3.0	7.5	32.4	30.8	19.3	6.1	.8			
< 15		2		1			1							
15-17		87	.5	1	51	29	5	1						
18-19		439	2.3		105	214	114	6						
20-24		4,060	21.3	2	150	629	2,705	472	94	7	1			
25-29		5,087	26.6	1	16	132	1,801	2,606	462	63	6			
30-34		4,133	21.7		3	25	525	1,682	1,701	172	24	1		
35-39		2,086	10.9		2	13	140	457	913	528	33			
40-44		668	3.5			1	39	132	225	223	47	1		
45-49		215	1.1			1	12	50	72	61	18	1		
50-54		99	.5				7	22	33	21	13	3		
55-59		48	.3				7	11	12	13	5			
60-64		17	.1				1	3	6	7				
OVER 64		25	.1				1	6	10	7	1			
UNKNOWN		2,124	11.1	9	237	391	829	434	150	66	7	1		

MEDIAN AGE OF KNOWN FATHERS = 29
MEDIAN AGE OF ALL MOTHERS = 25

TABLE 20

ILLEGITIMATE LIVE BIRTHS BY PLACE OF OCCURRENCE REALLOCATED TO PLACE OF RESIDENCE AND RACE OF MOTHER
STATE OF HAWAII, 1983

GEOGRAPHIC AREA	PLACE OF OCCURRENCE	BIRTH BY PLACE OF RESIDENCE		RACE OF MOTHER													
		NO.	RATE*	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNESE	OTHER	UNKNOWN
TOTAL RECORDED	3776	3776	197.0	773	60	1604	58	551	244	53	41	145	70	59	22	95	1
STATE OF HAWAII	3776	3766	197.3	765	60	1603	58	551	244	53	41	145	70	59	22	94	1
COUNTY OF HAWAII	518	536	279.0	125	16	252	6	62	36	8	1	1	1	12		16	
CITY OF HILO	325	185	290.4	20	5	102	2	24	16	2	1			6		7	
BALANCE OF COUNTY	193	351	273.4	105	11	150	4	38	20	6		1	1	6		9	
COUNTY OF HONOLULU	2716	2647	179.9	492	25	1103	47	394	187	39	38	139	67	33	22	60	1
CITY OF HONOLULU	2353	1066	180.5	222	4	371	27	151	106	14	17	68	26	10	18	31	1
BALANCE OF COUNTY	323	1581	179.5	270	21	732	20	243	81	25	21	71	41	23	4	29	
COUNTY OF KALAWAO		1	1000.0				1										
COUNTY OF KAUAI	194	198	236.8	40	10	79	1	41	9	2	1	1		8		6	
ISLAND OF KAUAI	194	198	237.1	40	10	79	1	41	9	2	1	1		8		6	
ISLAND OF NIIHAU																	
COUNTY OF MAUI	348	384	237.0	108	9	169	3	54	12	4	1	4	2	6		12	
ISLAND OF LANAI	5	13	371.4			3		10									
ISLAND OF MAUI	318	323	224.5	106	7	126	3	41	12	4	1	3	2	6		12	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	25	48	328.8	2	2	40		3				1					
NONRESIDENT		9	123.3	7		1										1	
UNKNOWN RESIDENCE		1	1000.0	1													

* NUMBER OF BIRTHS PER 1000 RESIDENT LIVE BIRTHS.

TABLE 21

ILLEGITIMATE LIVE BIRTHS BY WEIGHT AT BIRTH AND RACE OF CHILD
STATE OF HAWAII, 1983

WEIGHT AT BIRTH IN GRAMS		RACE OF CHILD															
		ALL RACES		CAU-CASIAN	HAWN	PART HAWN	CHI-NESE	FILI-PINO	JAPA-NESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTU-GUESE	VIET-NAMESE	OTHER	UNKNOWN
		NUMBER	PERCENT														
TOTAL		3,766	100.0	574	40	1,928	54	485	200	51	30	142	100	53	21	88	
LOW BIRTH WEIGHT a/	NUMBER	355	9.4	48	4	163	9	65	27	2	4	7	14	6	2	4	
	PERCENT b/			1.3	.1	4.3	.2	1.7	.7	.1	.1	.2	.4	.2	.1	.1	
UNDER 501		6	.2			4			1		1						
501 THRU 1000		13	.3			9			2		1					1	
1001 THRU 1500		27	.7	6		16		1	1	1		1	1				
1501 THRU 2000		70	1.9	9		44		9	4		1		1	1		1	
2001 THRU 2500		239	6.3	33	4	90	9	55	19	1	1	6	12	5	2	2	
2501 THRU 3000		897	23.8	99	9	467	10	154	55	17	8	25	20	10	5	18	
3001 THRU 3500		1,462	38.8	233	14	758	22	178	68	20	12	52	38	23	9	35	
3501 THRU 4000		831	22.1	149	10	436	10	77	40	10	6	43	26	12	5	27	
4001 THRU 4500		182	4.8	37	2	103	3	9	9	2		11	2	2		2	
4501 THRU 5000		30	.8	7	1	14		2	1			3				2	
OVER 5000		3	.1	1		2											
UNKNOWN		6	.2			5						1					

MEDIAN WEIGHT, LB.OZ. 7- 1 GRAMS 3187

a/ INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
b/ PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 22

ILLEGITIMATE LIVE BIRTHS BY RACE AND AGE OF MOTHER
STATE OF HAWAII, 1983

RACE OF MOTHER		ALL AGES		AGE OF MOTHER IN YEARS										
		NUMBER	RATIO*	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	OVER 49	UNKNOWN
ALL RACES	NUMBER	3,766	197.3	13	439	746	1,455	696	301	102	13	1		
	RATIO*			928.6	778.4	519.9	235.2	118.3	81.8	87.3	83.9	142.9		
CAUCASIAN		765	128.7		51	106	287	173	105	36	7			
HAWAIIAN		60	394.7		5	13	28	8	4	2				
PART HAWN		1,603	393.4	5	228	365	642	261	80	21	1			
CHINESE		58	79.3		7	10	15	16	6	3	1			
FILIPINO		551	180.8	2	78	133	203	85	38	11	1			
JAPANESE		244	96.0	3	24	52	82	46	26	8	2	1		
PUERTO RCN		53	304.6		7	9	22	13	2					
KOREAN		41	99.5		3	6	7	10	8	7				
SAMOAN		145	279.9	2	13	21	68	28	6	7				
NEGRO		70	115.1	1	4	1	41	19	3	1				
PORTUGUESE		59	221.0		6	15	27	8	2	1				
VIETNAMESE		22	215.7		4		3	9	3	3				
OTHER		94	182.9		9	15	29	20	18	2	1			
UNKNOWN		1	200.0				1							

* NUMBER OF ILLEGITIMATE BIRTHS PER 1000 LIVE BIRTHS IN SPECIFIED GROUP.

TABLE 23

HAWAII RESIDENT BIRTHS OCCURRING OUTSIDE STATE BY AGE OF MOTHER, RACE, AND SEX OF CHILD*
1983

AGE OF MOTHER	TOTAL		RACE AND SEX OF CHILD											
			CAUCASIAN		CHINESE		FILIPINO		PART-HAWAIIAN		KOREAN		BLACK	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL	18	16	14	9	1		1	1		4	1		1	2
UNDER 15	1		1											
15 - 19	2	3	1		1					2				1
20 - 24	8	2	8	2										
25 - 34	6	9	4	7			1	1					1	1
35 - 44	1	1								1	1			
UNKNOWN		1								1				

*INCLUDES BIRTHS OCCURRING IN THE UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM, AND THE DISTRICT OF COLUMBIA.

FIGURE 2
DEATHS OCCURRING IN HAWAII 1900-1983

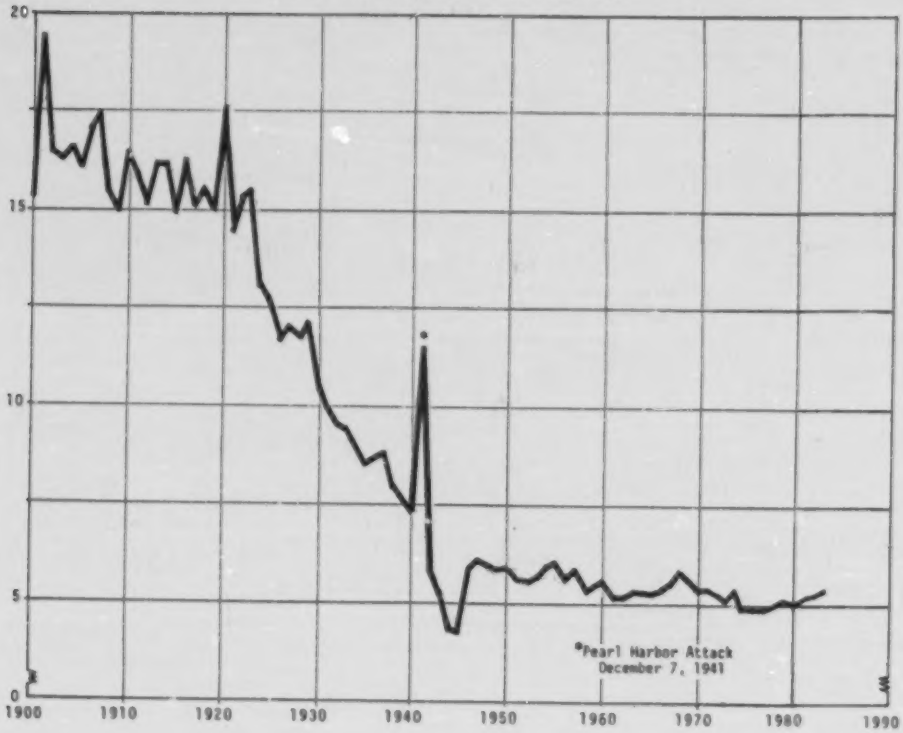


TABLE 24
TOTAL DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE BY RACE
STATE OF HAWAII, 1983a/

GEOGRAPHIC AREA	TOTAL BY PLACE OF OCCURR	TOTAL BY PLACE OF RESIDENCE		ALL RACES		RACE													
		NUMBER	RATE b/	MALE	FEMALE	CAUCASIAN	HAWN	PT. HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES	UNKNOWN
TOTAL RECORDED	5725	5725	5.6	3395	2330	1670	225	672	336	771	1480	56	99	68	38	234	7	67	2
STATE OF HAWAII	5724	5409	5.3	3184	2225	1437	225	671	332	763	1468	56	98	56	30	234	6	31	2
CTY OF HAWAII	535	593	5.7	353	237	133	30	88	6	87	183	11	4			47		1	
CITY OF HILO	348	204		105	99	33	7	33	6	21	76	5	3			19		1	
BALANCE OF CTY	187	386		247	139	100	23	55		66	107	6	1			28			
CTY OF HONOLULU	4451	4370	5.1	2389	1681	1136	152	485	316	528	1072	35	93	56	30	133	6	26	2
CITY-HONOLULU	3582	2360		1359	1001	681	69	207	252	234	708	19	76	20	9	69	2	13	1
BALANCE OF CTY	869	1710		1030	680	455	83	278	64	294	364	16	17	36	21	64	4	13	1
CTY OF KALAWAO	2	3		2	1		1	1	1										
CTY OF KAUAI	292	284	6.5	166	118	46	11	29	4	72	87	6	1			26		2	
ISL OF KAUAI	292	284		166	118	46	11	29	4	72	87	6	1			26		2	
ISL OF NIIHAU																			
CTY OF MAUI	444	464	5.8	274	168	122	31	68	5	76	126	4				26		2	
ISL OF LANAI	9	16	7.5	11	5	1	1			5	8								
ISL OF MAUI	402	400	5.6	230	170	116	24	57	5	52	113	4				27		2	
ISL OF MOLOKAI (EXCL KALAWAO)	33	46	7.4	33	13	5	6	11		18	5					1			
NONRESIDENT		315		213	105	232		1	4	8	12		1	12	8		1	36	
UNKNOWN	1	1		1		1													

a/EXCLUDES DEATHS OF HAWAII RESIDENTS OCCURRING AND RECORDED IN OTHER REGISTRATION AREAS
b/RATE OF DEATH PER 1,000 RESIDENT POPULATION

TABLE 25

RESIDENT DEATHS BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1983

PLACE OF OCCURRENCE		MONTH OF OCCURRENCE													
		TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	UNK
STATE OF HAWAII	NUMBER	5409	511	490	471	440	456	446	425	446	427	421	461	455	
	PERCENT	100.0	9.4	8.3	8.7	8.1	8.4	8.2	7.9	8.2	7.9	7.8	8.5	8.4	
CTY OF HAWAII		513	45	37	53	42	50	34	38	46	41	40	42	45	
CITY OF HILO		339	26	27	34	31	39	26	22	30	28	21	25	30	
BALANCE OF CTY		174	19	10	19	11	11	8	16	16	13	19	17	15	
CTY OF HONOLULU		4213	383	366	368	338	354	346	338	342	335	330	359	354	
CITY-HONOLULU		3365	301	292	306	278	288	278	279	268	265	259	290	261	
BALANCE OF CTY		848	82	74	62	60	66	68	59	74	70	71	69	93	
CTY OF KALAWAO		2	1											1	
CTY OF KAUAI		274	30	21	24	23	28	32	15	21	19	20	17	24	
ISL OF KAUAI		274	30	21	24	23	28	32	15	21	19	20	17	24	
ISL OF NIIHAU															
CTY OF MAUI		406	52	26	26	37	24	34	33	37	32	31	43	31	
ISL OF LANAI		9	1			3	1	1	1		1	1			
ISL OF MAUI		366	45	25	22	31	22	33	30	31	29	27	40	31	
ISL OF MOLOKAI		31	6	1	4	3	1		2	6	2	3	3		
NON-RESIDENT															
UNKNOWN		1							1						

TABLE 26

RESIDENT DEATHS BY PLACE OF OCCURRENCE, AGE, AND SEX
STATE OF HAWAII, 1983

PLACE OF OCCURRENCE	ALL AGES				AGE AND SEX																		
					UNDER 1		1 - 4		5 - 14		15 - 17		18 - 24		25 - 44		45 - 64		65 - 74		75 & OVER		UNK
	TOTAL	MALE	FEMALE	UNK	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
STATE OF HAWAII	5409	3184	2225		96	79	23	11	19	18	15	4	96	28	262	125	746	477	841	416	1086	1064	1
CTY OF HAWAII	513	311	202		4	5	3	1	1	1	2		8	1	31	11	63	37	65	37	114	109	
CITY OF HILO	339	192	147		3	3	2	1			2		1	1	17	7	35	26	51	26	81	63	
BALANCE OF CTY	174	119	55		1	2	1		1	1			7		14	4	28	11	34	11	33	26	
CTY OF HONOLULU	4213	2467	1746		87	72	16	7	16	14	9	3	77	25	185	102	600	392	663	334	814	796	1
CITY-HONOLULU	3365	1952	1413		76	64	13	3	12	11	6	2	51	18	130	80	471	307	530	276	663	651	1
BALANCE OF CTY	848	515	333		11	8	3	4	4	3	3	1	26	7	55	22	129	85	133	58	151	145	
CTY OF KALAWAO	2	1	1																		1	1	
CTY OF KAUAI	274	166	108		1		2		1	1	1		9	1	19	2	23	19	38	22	72	63	
ISL OF KAUAI	274	166	108		1		2		1	1	1		9	1	19	2	23	19	38	22	72	63	
ISL OF NIIHAU																							
CTY OF MAUI	406	238	168		4	2	2	3	1	2	3	1	2	1	26	10	60	29	55	25	85	95	
ISL OF LANAI	9	7	2															1	4		3	1	
ISL OF MAUI	366	207	159		3	2	2	2	1	2	3	1	2	1	25	10	53	27	44	25	74	89	
ISL OF MOLOKAI	31	24	7		1			1							1		7	1	7		8	5	
NON-RESIDENT																							
UNKNOWN	1	1													1								

TABLE 27

RESIDENT DEATHS BY AGE AND RACE
STATE OF HAWAII, 1983

AGE IN YEARS	ALL RACES				RACE													
	TOTAL	MALE	FEMALE	UNK	CAUCASIAN	HAWN	PT. HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES	UNK
ALL AGES	5409	3184	2225		1437	225	671	332	763	1468	56	98	56	30	234	6	31	2
UNDER 1	175	96	79		46	2	53	7	22	22	1	5	4	8	1		4	
1 - 4	34	23	11		11		13	1	4	4	1							
5 - 14	37	19	18		8		12	2	7	6		1	1					
15 - 17	19	15	4		4		9		2	2		1	1					
18 - 19	30	24	6		13		13		2	1			1					
20 - 24	94	72	22		34		22		9	12	3	1	4	5	1	1	1	1
25 - 34	180	134	46		80	2	31	3	21	20		4	8	4	4		3	
35 - 44	207	128	79		72	10	39	9	13	40	1	7	4	1	5	2	4	
45 - 54	377	218	159		92	18	73	15	56	85	2	8	8	5	12		3	
55 - 64	846	528	318		222	45	143	47	80	222	9	19	11	5	36	1	6	
65 - 74	1259	841	418		346	66	143	77	194	311	20	17	7	2	71	1	3	1
75 & OVER	2150	1086	1064		508	82	120	171	353	743	19	35	7		104	1	7	
UNKNOWN	1		1		1													

TABLE 28
TOTAL RECORDED DEATHS, BY AGE, RACE, AND SEX
STATE OF HAWAII, 1983

AGE				CAUCASIAN		HAWAIIAN		PART HAWN		CHINESE		FILIPINO		JAPANESE		PUERTO RCN		KOREAN		SAMOAN		NEGRO		PORTUGESE		VIETNAMESE		OTHER		UNK	
	TOTAL	MAL	FEM	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
< 1	191	105	86	32	19	2		25	28	4	3	16	7	11	11	1		1	4	4	3	4	5		1			5	5		
1	22	11	11	4	1			4	4			1	3	1	1				1									1	1		
2	8	6	2	1	1			3				1		1															1		
3	5	3	2	1				1		1					1														1		
4	5	4	1	2	1			1								1															
5-9	17	7	10		4			3	2				3	3						1	1										
10-14	21	13	8	2	2			5	2	1	1	1	3	3				1													
15-19	54	41	13	15	5			17	5			2	2	3				1		2								1	1		
20-24	100	76	24	29	7			16	6			6	3	11	1	2	1	1		5	2	3	2	1		1			2	1	
25-29	102	80	22	40	4	1		12	4		1	9	4	10				1	2	1	3	3	2	1		1		1	2		
30-34	93	64	29	31	11		1	11	4	1	1	4	4	9	4				1	3	1			3				2	2		
35-39	110	69	41	35	14	2		7	11	2	2	4	2	10	6	1		3	1		1		1	2			2	3	1		
40-44	119	77	42	25	14	5	3	12	9	5		6	3	17	8			1	2	1	2			2	1			3			
45-49	164	88	76	26	12	8	1	20	21	3	6	5	13	15	17			1	3	2	1	1		3	1				1		
50-54	249	154	95	61	19	2	7	16	16	6	2	16	18	32	24	2		3	1	3	2	4	2	6	2			3	2		
55-59	395	258	137	75	34	14	6	44	27	12	6	26	20	60	30	5	1	3	2	3	3	3	1	9	5			4	2		
60-64	536	335	201	109	72	10	13	42	31	20	4	23	13	94	42	2	1	8	6	4	2	2	2	17	7		1	4	2		
65-69	677	433	244	153	80	19	17	41	37	28	14	41	23	113	55	6	1	5	4	4	1	1		21	9			1	3		
70-74	662	461	201	112	68	17	13	38	27	21	15	116	14	101	43	10	3	4	4	3	3	1	1	33	8	1		3	2	1	
75-79	682	404	278	91	81	12	19	27	23	32	23	93	25	113	75	3	3	6	7	3				22	17		1	2	4		
80-84	621	334	287	76	79	10	14	9	25	25	25	102	31	97	84	2	8	5	7	1	1			7	21				2		
85-89	444	200	244	54	61	9	8	5	15	21	18	43	12	59	107	2			6		1			7	16						
90-94	320	128	192	29	49	3	6	5	10	7	16	21	8	49	84	1		1	1		1			2	17						
> 94	126	43	83	5	22		1		1	2	3	5	5	30	45			1	1						5						
UNK	2	1	1	1	1																										
TOTAL	5725	3395	2330	1009	661	114	111	364	308	191	145	555	216	842	638	38	16	46	53	40	26	22	16	236	98	3	4	33	34	2	

NOTE: UNKNOWN SEX FALLS IN MALE CATEGORY

TABLE 29
TOTAL RESIDENT DEATHS RECORDED IN HAWAII BY AGE GROUPS FOR SELECTED YEARS
STATE OF HAWAII: 1983, 1973, AND 1963

AGE IN YEARS	1983		1973[a]		1963[a]	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
ALL AGES	5,409	100.0	4,368	100.0	3,656	100.0
UNDER 1	175	3.2	207	4.7	400	10.9
1 - 4	34	.6	33	.8	64	1.8
5 - 9	16	.3	25	.6	36	1.0
10 - 14	21	.4	19	.4	28	.8
15 - 19	49	.9	58	1.3	59	1.6
20 - 24	94	1.7	76	1.7	58	1.6
25 - 34	180	3.3	142	3.3	108	3.0
35 - 44	207	3.8	197	4.5	205	5.6
45 - 54	377	7.0	478	10.9	400	10.9
55 - 64	846	15.6	728	16.7	573	15.7
65 - 74	1,259	23.3	962	22.0	740	20.2
75 - 84	1,266	23.4	918	21.0	649	17.8
85 & OVER	885	16.4	525	12.0	336	9.0
UNKNOWN	--	--	--	--	1	0.0

MEDIAN AGE AT DEATH 1983: 70.6 YEARS; 1973: 67.3 YEARS; 1963: 63.2 YEARS

[a] SOURCE: VITAL STATISTICS OF THE UNITED STATES

TABLE 30

RESIDENT DEATHS BY AGE, SEX, AND MARITAL STATUS
STATE OF HAWAII, 1983

AGE IN YEARS	NUMBER BY MARITAL STATUS																	
	MALE						FEMALE						UNKNOWN					
	TOTAL	SIN	MAR	WID	DIV	UNK	TOTAL	SIN	MAR	WID	DIV	UNK	TOTAL	SIN	MAR	WID	DIV	UNK
ALL AGES	3184	640	1863	425	245	13	2225	246	756	1041	181	1						
UNDER 15	138	138					108	108										
15 - 17	15	15					4	4										
18 - 19	24	23	1				6	6										
20 - 24	72	57	13		1	1	22	11	8	1	2							
25 - 34	134	64	52	1	17		46	10	26		10							
35 - 44	128	28	72		27	1	79	14	41	3	21							
45 - 54	216	36	145	5	32		159	12	108	14	25							
55 - 64	528	64	375	30	58	1	318	23	193	61	41							
65 - 74	841	90	601	34	62	4	418	19	185	174	39	1						
75 - 84	717	91	444	138	42	2	549	21	152	342	34							
85 & OVER	369	34	160	165	6	4	515	18	43	446	8							
UNKNOWN							1				1							

TABLE 31
LEADING CAUSES OF DEATH FOR 1983 AND COMPARATIVE DATA FOR SELECTED YEARS
STATE OF HAWAII, 1983, 1973, 1963

	Rank	1983			1973			1963		
		No.[a]	Rate[b]	Per-cent	No.[c]	Rate[b]	Per-cent	No.[c]	Rate[b]	Per-cent
All Causes	..	5,409	528.6	100.0	4,368	513.3	100.0	3,656	535.9	100.0
Diseases of the Heart (390-398, 402, 404, 410-429)	1	1,738	169.9	32.1	1,406	165.2	32.2	1,200	175.9	32.8
Malignant Neoplasms (140-208)	2	1,291	126.2	23.9	901	105.9	20.6	632	92.6	17.3
Cerebrovascular Diseases[d] (430-438)	3	428	41.8	7.9	455	53.5	10.4	305	44.7	8.4
All Accidents (E800-E949)	4	265	25.9	4.9	302	35.5	6.9	232	34.0	6.4
Influenza and Pneumonia (480-487)	5	193	18.9	3.6	162	19.0	3.7	118	17.3	3.2
Diabetes Mellitus (250)	6	113	11.0	2.1	115	13.5	2.6	87	12.8	2.4
Suicide (E950-E959)	7	95	9.3	1.8	88	10.3	2.0	87	12.8	2.4
Other Circulatory Diseases (441-459)	8	83	8.1	1.5	68	8.0	1.6	55	8.1	1.5
Perinatal Conditions (760-779)	9	71	6.9	1.3	123	14,5	2.8	283	41.5	7.7
Congenital Anomalies (740-759)	10	67	6.5	1.2	61	7.2	1.4	82	12.0	2.2
Bronchitis, Emphysema, and Asthma (490-493)	11	62	6.0	1.2	63	7.4	1.5	61	8.9	1.7
Liver Disease and Cirrhosis (571)	12	60	5.9	1.1	67	7.9	1.5	49	7.2	1.3
Homicide (960-978)	13	51	5.0	0.9	38	4.5	0.9	13	1.9	0.4
All Other Causes		892	87.2	16.5	519	60.9	11.9	452	66.2	12.3

a/ Resident deaths only (including resident military personnel)
b/ Rate of death per 100,000 total resident population
c/ Source: Vital Statistics of the United States

TABLE 32

TOTAL RESIDENT DEATHS BY COUNTY AND BY SELECTED CAUSES OF DEATH
STATE OF HAWAII 1983

	STATE TOTAL a/		HAWAII COUNTY		HONOLULU COUNTY		KAUAI COUNTY		MAUI COUNTY	
	NUMBER	RATE b/	NUMBER	RATE b/	NUMBER	RATE b/	NUMBER	RATE b/	NUMBER	RATE b/
TOTAL DEATHS	5409	528.6	590	567.5	4070	511.3	284	651.9	462	579.8
TUBERCULOSIS, ALL FORMS (010-018,137)	10	1.0			9	1.1			1	1.3
SYPHILIS AND ITS SEQUELAE (090-097)										
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	64	6.3	5	4.8	52	6.5	1	2.3	5	6.3
MALIGNANT NEOPLASM (140-208)	1291	126.2	150	144.3	974	122.4	58	133.1	109	136.8
DIGESTIVE ORGANS (150-159)	417	40.8	57	54.8	316	39.7	16	36.7	28	35.1
RESPIRATORY SYSTEM (160-163)	284	27.8	25	24.0	220	27.6	8	18.4	31	38.9
BREAST (174-175)	99	9.7	12	11.5	72	9.0	6	13.8	9	11.3
GENITAL ORGANS (179-187)	118	11.5	14	13.5	92	11.6	6	13.8	6	7.5
URINARY ORGANS (188-189)	56	5.5	6	5.8	41	5.2	3	6.9	6	7.5
LEUKEMIA (204-208)	61	6.0	5	4.8	43	5.4	3	6.9	10	12.5
OTHER (140-208)	256	25.0	31	29.8	190	23.9	16	36.7	19	23.8
DIABETES MELLITUS (250)	113	11.0	13	12.5	86	10.8	6	13.8	8	10.0
DISEASE OF CIRCULATORY SYSTEM (390-459)	2311	225.9	261	251.0	1699	213.4	139	319.1	212	266.1
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	1738	169.9	200	192.4	1266	159.3	110	252.5	160	200.8
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	29	2.8	2	1.9	23	2.9	1	2.3	3	3.8
HYPERTENSIVE HEART (402,404)	48	4.7	2	1.9	32	4.0	9	20.7	5	6.3
ISCHEMIC HEART (410-414)	1177	115.0	146	140.4	876	110.0	62	142.3	93	116.7
OTHER HEART DISEASE (415-417,420-429)	484	47.3	50	48.1	337	42.3	38	87.2	59	74.0
HYPERTENSION (401,403)	19	1.9	2	1.9	11	1.4	1	2.3	5	4.3
CEREBROVASCULAR DISEASE (430-438)	428	41.8	45	43.3	321	40.3	20	45.9	42	52.7
ARTERIOSCLEROSIS (440)	43	4.2	6	5.8	34	4.3	3	6.9		
OTHER CIRCULATORY (441-459)	83	8.1	8	7.7	65	8.2	5	11.5	5	6.3
INFLUENZA/PNEUMONIA (480-487)	193	18.9	14	13.5	154	19.3	11	25.3	14	17.6
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	62	6.1	6	5.8	47	5.9	4	9.2	5	6.3
PEPTIC ULCER (531-533)	16	1.6	1	1.0	11	1.4	1	2.3	3	3.8
CIRRHOSIS OF LIVER (571)	60	5.9	3	2.9	50	6.3	4	9.2	3	3.8
NEPHRITIS AND NEPHROSIS (580-589)	44	4.3	9	8.7	29	3.6	4	9.2	1	1.3
COMPLICATIONS OF PREGNANCY, CHILDBIRTH & PUERPERIUM (630-676)										
CONGENITAL ANOMALIES (740-759)	67	6.5	8	7.7	49	6.2	2	4.6	8	10.0
PERINATAL CONDITIONS (760-779)	71	6.9	5	4.8	60	7.5			6	7.5
SYMPTOMS & ILL-DEFINED COND (780-799)	44	4.3	2	1.9	38	4.8	1	2.3	3	3.8
ALL OTHER DISEASES (BLANKS,000-799)	618	60.4	63	60.6	474	59.5	31	71.2	50	62.7
ACCIDENTAL DEATHS (800-949)	265	25.9	34	32.7	199	25.0	13	29.8	18	22.6
MOTOR VEHICLE (810-825)	140	13.7	26	25.0	94	11.8	9	20.7	10	12.5
OTHER TRANS. (800-807,826-848)	25	2.4			25	3.1				
POISONING (850-869)	5	0.5			5	0.6				
FALLS (880-888)	34	3.3	1	1.0	31	3.9	1	2.3	1	1.3
FIRES (890-899)	6	0.6			6	0.8				
DROWNING & SUBMERSIONS (910)	35	3.4	6	5.8	23	2.9	2	4.6	4	5.0
FIREARM MISSILES (922)	1	0.1							1	1.3
ADVERSE EFFECTS (930-949)	1	0.1			1	0.1				
OTHER ACCIDENTS (800-949)	18	1.8	1	1.0	14	1.8	1	2.3	2	2.5
SUICIDE (950-959)	95	9.3	8	7.7	74	9.3	6	13.8	7	8.8
HOMICIDE & LEGAL INTERVENTION (960-978)	51	5.0	4	3.8	40	5.0	3	6.9	4	5.0
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	34	3.3	4	3.8	25	3.1			5	6.3

a/ INCLUDES KALAWAO
b/ RATE PER 100,000 TOTAL RESIDENT POPULATION (MAUI COUNTY INCLUDES KALAUPAPA)

TABLE 32A

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
STATE OF HAWAII 1983

CAUSES OF DEATH	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
UNKNOWN SEX IN MALE CATEG.	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	3184	2225	96	79	23	11	6	10	13	8	15	4	24	6	72	22	74	20	60	26	61	40
TUBERCULOSIS, ALL FORMS (010-018,137)	7	3																				
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	33	31	1											1				1				
MALIGNANT NEOPLASM (140-208)	742	549	1		3		2	4	2	1	2	2	2	1	9	3	2	4	5	9	10	14
DIGEST. ORGANS (150-159)	260	157					1					1							2	1		4
RESPIRATORY SYSTEM (160-163)	200	84																		1	1	
BREAST (174-175)		99														1		2		2		5
GENITAL ORGANS (179-187)	53	65										1			1						1	2
URINARY ORGANS (188-189)	43	13							1										1			
LEUKEMIA (204-208)	37	24			1		1	2		1	1		1		2	1	1		1	1		
OTHER (140-208)	149	107	1		2			2	1		1		1	1	0	1	1	2	5	4	8	3
DIABETES MELLITUS (250)	52	61																		1	2	4
DISEASE OF CIRCULATORY SYSTEM (390-459)	1330	981	3	2	1				2	2			1		1	3	5		5	1	14	3
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	1024	714	3	2	1				2	2			1		1	3	4		4	1	11	3
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	14	15							1							1	1		1		2	1
HYPERTENSIVE HEART (402,404)	24	24																				
ISCHEMIC HEART (410-414)	706	471															1		1		6	1
OTHER HEART DISEASE (415-417,420-429)	280	204	3	2	1				1	2			1		1	2	2		2	1	3	1
HYPERTENSION (401,403)	7	12																				
CEREBROVASCULAR DISEASE (430-438)	222	206															1		1		2	
ARTERIOSCLEROSIS (440)	22	21																				
OTHER CIRCULATORY (441-459)	55	28																			1	
INFLUENZA/PNEUMONIA (480-487)	116	77	2	1		1										1		1		1	1	1
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	38	24						1	1	1	1					2	1	1		1	-	1
PEPTIC ULCER (531-533)	12	4																				
CIRRHOSIS OF LIVER (571)	40	20								1									1		1	
NEPHRITIS AND NEPHROSIS (580-589)	23	21																				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)	39	28	33	25	3						1				1	1						
PERINATAL CONDITIONS (760-779)	41	30	41	30																		
SYMPTOMS & ILL-DEFINED COND (780-799)	25	19	12	11		2		1		1			2		1		1	1			2	2
ALL OTHER DISEASES (BLANKS,000-799)	351	267	1	6	8	3		2	1				3		4	3	7	3	4	5	4	4
ACCIDENTAL DEATHS (800-949)	203	62	2	1	7	3	4	1	5	1	6	1	9	2	40	5	31	2	21	2	17	6
MOTOR VEHICLE (810-825)	110	30		1	3	1	2		4		6	1	8	2	26	3	17		10	1	8	3
OTHER TRANS. (800-807,826-848)	25						1								6		7		1		5	
POISONING (850-869)	1	4													1			1				1
FALLS (880-888)	24	10				1									1				6		1	
FIRES (890-899)	3	3								1												
DROWNING & SUBMERSIONS (910)	26	7	1		4		1	1	1				1		3	2	7	1	2	1	2	1
FIREARM MISSILES (922)	1														1							
ADVERSE EFFECTS (930-949)		1																				
OTHER ACCIDENTS (800-949)	11	7	1			1									2				2		1	1
SUICIDE (950-959)	74	21							2		4	1		1	7		15	1	10	5	8	2
HOMICIDE & LEGAL INTERVENTION (960-978)	31	20		1	1	1		1		1			3		4	4	7	5	5		2	3
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	27	7				1					1		4	1	5		5	1	5	1		

TABLE 32A (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
STATE OF HAWAII 1983

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	67	39	81	72	137	87	229	128	299	190	399	227	442	191	390	267	327	282	389	516		
TUBERCULOSIS, ALL FORMS (010-018,137)											1	3	3				1		2			
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	1		2	1	1	2	1	2	4	2	7	3	5		2	3	3	7	6	9		
MALIGNANT NEOPLASM (140-208)	15	17	24	24	45	42	74	58	99	73	121	80	128	56	94	60	57	43	43	58		
DIGEST. ORGANS (150-159)	5	2	8	3	19	7	30	9	40	19	41	18	47	23	32	23	15	17	20	30		
RESPIRATORY SYSTEM (160-163)	3	3	9	4	17	7	25	14	38	8	38	18	29	11	23	8	16	6	1	4		
BREAST (174-175)		5		6		13		13		20		14		7		6		2		3		
GENITAL ORGANS (179-187)		5		6		5	2	8	1	9	10	10	9	4	11	6	11	6	7	3		
URINARY ORGANS (188-189)	1		1		1		2	1	5	2	6	1	8	2	7		6	3	4	4		
LEUKEMIA (204-208)	2			1			3	3	3	1	7	5	5	1	4	4	2	2	3	2		
OTHER (140-208)	4	2	6	4	8	10	12	10	12	14	19	14	30	8	17	13	7	7	8	12		
DIABETES MELLITUS (250)	1	2		2	2	2	5	4	3	9	8	5	6	6	12	10	7	3	6	11		
DISEASE OF CIRCULATORY SYSTEM (390-459)	23	10	38	28	57	32	105	33	145	69	171	97	211	90	188	142	165	167	195	302		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	18	7	32	17	46	22	85	28	120	57	134	71	159	71	138	98	125	119	140	213		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	1	1			1	4		2			2	3	3	1			1		1	2		
HYPERTENSIVE HEART (402,404)			1	1	1		1		2		5	2	3	4	2	2	3	4	4	11		
ISCHEMIC HEART (410-414)	12	2	23	11	38	13	66	17	93	39	99	48	106	57	93	71	80	80	88	132		
OTHER HEART DISEASE (415-417,420-429)	5	4	8	5	6	5	18	9	25	18	28	18	47	9	43	25	39	35	47	68		
HYPERTENSION (401,403)	1			1	1							1		2	2	2	1	1	2	5		
CEREBROVASCULAR DISEASE (430-438)	4	1	6	10	9	9	15	4	20	11	29	21	33	12	33	34	30	39	39	65		
ARTERIOSCLEROSIS (440)									1			1	5	3	4	3	2	2	10	12		
OTHER CIRCULATORY (441-459)		2			1	1	5	1	4	1	8	3	14	2	11	5	7	0	4	7		
INFLUENZA/PNEUMONIA (480-487)	2	1		1	2	1	2	2	8	1	15	1	17	4	14	6	26	11	27	43		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)			1			2	3	3	4	1	6	3	8	4	3	1	7	1	3	2		
PEPTIC ULCER (531-533)							2				1	1	3		3			1	3	2		
CIRRHOSIS OF LIVER (571)	1		1	1	6	1	6	2	7	5	10	4	3	3	2		2	2		1		
NEPHRITIS AND NEPHROSIS (580-589)							2			1	2	3	2	2	7	5	7	3	3	5		
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)				1		1	1															
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)			1				1	1	1		2				1		1					
ALL OTHER DISEASES (BLANKS,000-799)	7	5	5	7	8		18	16	19	23	48	19	45	23	51	33	45	37	73	76		
ACCIDENTAL DEATHS (800-949)	9	2	4	4	10	3	4	5	4	5	5	4	8	3	8	2	4	3	3	7		
MOTOR VEHICLE (810-825)	6	2	3	2	4	2	1	1	1	4	2	2	1	2	5	1	1	1	2	1		
OTHER TRANS. (800-807,826-848)					1		1		1		1				1							
POISONING (850-869)						1														1		
FALLS (880-888)	1			1	1		1		2		1	1	5	1	2		3	2		4		
FIRES (890-899)							1	1		1	1								1			
DROWNING & SUBMERSIONS (910)	1		1		3								1			1						
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)								1														
OTHER ACCIDENTS (800-949)	1			1	1			2				1	1						2	1		
SUICIDE (950-959)	3	1	3	2	3		3	1	3	1	2	2	2		4	4	2		3			
HOMICIDE & LEGAL INTERVENTION (960-978)	3	1	1	1	2		1					1	1		1	1						
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	2		1		1	1	1	1	2			1										

TABLE 32B

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HONOLULU COUNTY 1983

CAUSES OF DEATH	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
UNKNOWN SEX IN MALE CATEG.	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	2389	1681	81	59	14	6	5	8	10	6	8	3	19	6	62	18	55	19	36	21	43	32
TUBERCULOSIS, ALL FORMS (010-018,137)	7	2																				
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	28	24	1											1				1				
MALIGNANT NEOPLASM (140-208)	555	419	1		3		1	4	1	1	1	2	2	1	9	1	2	4	6	7	8	11
DIGEST. ORGANS (150-159)	196	120					1					1							1	1		4
RESPIRATORY SYSTEM (160-163)	151	69																		1	1	
BREAST (174-175)		72																2		1		3
GENITAL ORGANS (179-187)	42	50										1			1						1	2
URINARY ORGANS (188-189)	32	9																	1			
LEUKEMIA (204-208)	25	18			1			2		1			1		2		1		1			
OTHER (140-208)	109	81	1		2			2	1		1		1	1	6	1	1	2	3	4	6	2
DIABETES MELLITUS (250)	42	44																		1	2	3
DISEASE OF CIRCULATORY SYSTEM (390-459)	976	723	3	2	1				2	2			1		1	3	4		4		9	3
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	752	516	3	2	1				2	2			1		1	3	3		3		6	3
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	11	12							1							1	1		1			1
HYPERTENSIVE HEART (402,404)	13	19																				
ISCHEMIC HEART (410-414)	529	347															1		1		3	1
OTHER HEART DISEASE (415-417,420-429)	199	138	3	2	1				1	2			1		1	2	1		1		3	1
HYPERTENSION (401,403)	5	6																				
CEREBROVASCULAR DISEASE (430-438)	158	163															1		1		2	
ARTERIOSCLEROSIS (440)	17	17																				
OTHER CIRCULATORY (441-459)	44	21																			1	
INFLUENZA/PNEUMONIA (480-487)	93	61	2			1										1		1		1	1	1
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	29	18							1							2	1	1		1		1
PEPTIC ULCER (531-533)	9	2																				
CIRRHOSIS OF LIVER (571)	34	16								1									1		1	
NEPHRITIS AND NEPHROSIS (580-589)	16	13																				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)	30	19	26	16	2										1	1						
PERINATAL CONDITIONS (760-779)	36	24	36	24																		
SYMPTOMS & ILL-DEFINED COND (780-799)	21	17	10	10		1		1		1			2		1		1	1			2	2
ALL OTHER DISEASES (BLANKS,000-799)	265	209	1	7	4	1		2	1				2		4	2	4	3	1	5	2	3
ACCIDENTAL DEATHS (800-949)	147	52	1		3	2	4		4	1	4		6	2	31	4	23	2	13	1	10	5
MOTOR VEHICLE (810-825)	71	23			1	1	2		3		4		6	2	20	2	12		4		2	2
OTHER TRANS. (800-807,826-848)	25						1								6		7		1		5	
POISONING (850-869)	1	4													1			1				1
FALLS (880-888)	22	9				1									1				5		1	
FIRES (890-899)	3	3								1												
DROWNING & SUBMERSIONS (910)	17	6	1		2		1		1						2	2	4	1	1	1	1	1
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)		1																				
OTHER ACCIDENTS (800-949)	8	6													1				2		1	1
SUICIDE (950-959)	55	19							1		3	1		1	7		11	1	6	4	6	2
HOMICIDE & LEGAL INTERVENTION (960-978)	27	13			1			1					2		3	4	6	4	4		2	1
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	19	6				1							4	1	5		3	1	3	1		

TABLE 32B (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HONOLULU COUNTY 1983

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	52	31	61	53	101	65	178	100	232	154	306	178	333	137	287	200	237	202	267	383		
TUBERCULOSIS, ALL FORMS (010-018,137)											1	2	3				1		2			
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	1		2	1	1	2		1	3	1	7	2	4		2	2	3	6	4	7		
MALIGNANT NEOPLASM (140-208)	13	13	16	14	34	27	53	44	83	62	94	65	95	42	65	45	38	36	30	40		
DIGEST. ORGANS (150-159)	4	2	5	2	15	6	23	7	33	15	28	16	39	17	23	16	10	14	14	19		
RESPIRATORY SYSTEM (160-163)	2	2	6	2	11	4	19	12	32	6	31	17	19	9	17	7	12	5	1	4		
BREAST (174-175)		3		4		10		8		18		9		4		6		2		2		
GENITAL ORGANS (179-187)		4		4		3	1	8	1	9	9	7	7	2	9	4	8	4	5	2		
URINARY ORGANS (188-189)	1		1		1				4	1	5	1	7	2	3		5	3	4	2		
LEUKEMIA (204-208)	2			1			2	1	3	1	5	5	2	1	3	4	1	1	1	1		
OTHER (140-208)	4	2	4	1	7	4	8	8	10	12	16	10	21	7	10	8	2	7	5	10		
DIABETES MELLITUS (250)		2			2	2	5	2	3	6	7	4	5	4	11	7	3	4	4	9		
DISEASE OF CIRCULATORY SYSTEM (390-459)	19	9	30	25	44	26	82	28	107	53	123	72	158	61	137	107	117	111	134	221		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	15	6	24	16	39	19	66	23	90	43	97	54	119	48	101	70	86	76	95	151		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)		1			1	3		1			2	3	3	1			1		1	1		
HYPERTENSIVE HEART (402,404)			1	1			1				4	1	3	2	1	2	2	4	1	9		
ISCHEMIC HEART (410-414)	10	1	16	10	32	12	53	15	69	28	70	35	80	37	70	54	56	53	66	101		
OTHER HEART DISEASE (415-417,420-429)	5	4	7	5	6	4	12	7	21	15	21	15	33	8	30	14	25	19	27	40		
HYPERTENSION (401,403)	1				1									1	1	1	1		1	4		
CEREBROVASCULAR DISEASE (430-438)	3	1	6	9	3	7	11	4	13	9	20	15	25	8	22	30	23	30	26	50		
ARTERIOSCLEROSIS (440)									1			1	4	2	3	1	2	2	7	11		
OTHER CIRCULATORY (441-459)		2			1		5	1	3	1	6	2	10	2	10	5	5	3	3	5		
INFLUENZA/PNEUMONIA (480-487)	1	1			1		2	1	7	1	10	1	14	3	11	5	21	7	23	37		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)			1			2	3	1	3	1	5	2	6	3	3	1	3	1	1	2		
PEPTIC ULCER (531-533)							2				1	1	3		2				1	1		
CIRRHOSIS OF LIVER (571)	1				5	1	6	2	4	4	10	3	2	2	2		2	2		1		
NEPHRITIS AND NEPHROSIS (580-589)							2				1	3	2	2	5	2	3	2	3	4		
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)				1		1	1															
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)							1	1	1		1				1		1					
ALL OTHER DISEASES (BLANKS,000-799)	5	3	4	5	6		13	14	15	20	39	16	33	18	36	25	37	30	58	55		
ACCIDENTAL DEATHS (800-949)	7	2	3	4	5	3	4	5	3	5	5	3	6	2	7	2	4	3	4	6		
MOTOR VEHICLE (810-825)	4	2	2	2	1	2	1	1	1	4	2	1		1	4	1	1	1	1	1		
OTHER TRANS. (800-807,826-848)					1		1		1		1				1							
POISONING (850-869)						1														1		
FALLS (880-888)	1			1	1		1		1		1	1	5	1	2		3	2		3		
FIRES (890-899)							1	1		1	1								1			
DROWNING & SUBMERSIONS (910)	1		1		2											1						
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)								1														
OTHER ACCIDENTS (800-949)	1			1				2				1	1						2	1		
SUICIDE (950-959)	2	1	3	2			2	1	2	1	2	2	1		4	3	2		3			
HOMICIDE & LEGAL INTERVENTION (960-978)	3		1	1	2		1					1	1		1	1						
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)			1		1	1	1		1			1										

TABLE 32C

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HAWAII COUNTY 1983

CAUSES OF DEATH	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
UNKNOWN SEX IN MALE CATEG.	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	353	237	6	11	4	2		1	2		1		2		8	2	8	1	12	1	8	5
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-C97)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	2	3																				
MALIGNANT NEOPLASM (140-208)	87	63							1							1			2	1	2	3
DIGEST. ORGANS (150-159)	39	18																				
RESPIRATORY SYSTEM (160-163)	19	6																				
BREAST (174-175)		12																				2
GENITAL ORGANS (179-167)	5	9																				
URINARY ORGANS (188-189)	6								1													
LEUKEMIA (204-208)	1	4														1				1		
OTHER (140-208)	17	14																	2		2	1
DIABETES MELLITUS (250)	6	7																				
DISEASE OF CIRCULATORY SYSTEM (390-459)	155	106																			2	
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	121	79																			2	
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)		2																				
HYPERTENSIVE HEART (402,404)	1	1																				
ISCHEMIC HEART (410-414)	94	52																			2	
OTHER HEART DISEASE (415-417,420-429)	26	24																				
HYPERTENSION (401,403)	1	1																				
CEREBROVASCULAR DISEASE (430-438)	23	22																				
ARTERIOSCLEROSIS (440)	4	2																				
OTHER CIRCULATORY (441-459)	6	2																				
INFLUENZA/PNEUMONIA (480-487)	6	8		1																		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	4	2																				
PEPTIC ULCER (531-533)		1																				
CIRRHOSIS OF LIVER (571)	2	1																				
NEPHRITIS AND NEPHROSIS (580-589)	5	4																				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)	2	6	2	6																		
PERINATAL CONDITIONS (760-779)	3	2	3	2																		
SYMPTOMS & ILL-DEFINED COND (780-799)	2		1																			
ALL OTHER DISEASES (BLANKS,000-799)	37	26		1	3	1							1				2		1		1	1
ACCIDENTAL DEATHS (800-949)	29	5		1	1			1	1						8	1	3		4		3	1
MOTOR VEHICLE (810-825)	22	4		1	1				1						6	1	2		3		3	1
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)																						
FALLS (880-888)	1																					
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)	5	1						1							1		1		1			
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	1														1							
SUICIDE (950-959)	8																2		4			
HOMICIDE & LEGAL INTERVENTION (960-978)	1	3				1							1					1				
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	4										1						1		1			

TABLE 32C (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HAWAII COUNTY 1983

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	7	4	10	6	16	9	20	13	28	18	48	25	48	26	44	25	36	34	43	54		
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)								1				1	1					1	1			
MALIGNANT NEOPLASM (140-208)	1	2	3	3	4	6	12	5	7	6	15	8	12	10	15	3	10	5	3	10		
DIGEST. ORGANS (150-159)	1		1	1	1		4	1	5	1	9	1	5	5	7	1	4	2	2	6		
RESPIRATORY SYSTEM (160-163)			1		2	1	4	1	1	2	3		4	2	2		2					
BREAST (174-175)		1		1		1		3		1		2		1								
GENITAL ORGANS (179-187)		1				1	1				1	3	1	1			1	2	1	1		
URINARY ORGANS (188-189)							1				1				3							
LEUKEMIA (204-208)																	1	1		1		
OTHER (140-208)			1	1	1	3	2		1	2	1	2	2	1	3	2	2			2		
DIABETES MELLITUS (250)	1			1				1		2	1			1		1	3		1	1		
DISEASE OF CIRCULATORY SYSTEM (390-459)	3		4	1	6	3	8	2	14	8	26	12	26	17	22	13	16	22	28	33		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	2		4	1	4	2	6	2	12	7	22	8	19	10	18	11	14	16	16	22		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)								1												1		
HYPERTENSIVE HEART (402,404)											1			1								
ISCHEMIC HEART (410-414)	2		3	1	4	1	5		11	4	19	7	12	9	15	7	8	7	13	16		
OTHER HEART DISEASE (415-417,420-429)			1			1	1	1	1	3	2	1	7		3	4	6	9	5	5		
HYPERTENSION (401,403)																		1	1			
CEREBROVASCULAR DISEASE (430-438)	1				2		2		2	1	2	4	3	2	3	1	2	5	6	9		
ARTERIOSCLEROSIS (440)													1			1			3	1		
OTHER CIRCULATORY (441-459)						1					2		3		1					1		
INFLUENZA/PNEUMONIA (480-487)								1			1		3			1	1	2	1	3		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)								1	1		1	1	1				1					
PEPTIC ULCER (531-533)																				1		
CIRRHOSIS OF LIVER (571)									2	1												
NEPHRITIS AND NEPHROSIS (580-589)											1				2	3	2	1				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)																						
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)			1																			
ALL OTHER DISEASES (BLANKS,000-799)	1	1	1	1	1			2	2	1	3	3	3	2	5	4	5	3	8	6		
ACCIDENTAL DEATHS (800-949)	1		1		3				1				2	1					1			
MOTOR VEHICLE (810-825)	1		1		2								1	1					1			
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)																						
FALLS (880-888)									1													
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)					1								1									
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)																						
SUICIDE (950-959)					2																	
HOMICIDE & LEGAL INTERVENTION (960-978)		1																				
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)									1													

TABLE 32b

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
KAUAI COUNTY 1983

CAUSES OF DEATH	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
UNKNOWN SEX IN MALE CATEG.	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	166	118	3		2				1	1	3		2		1	1	2		5		2	2
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)		1																				
MALIGNANT NEOPLASM (140-208)	33	25																	1			
DIGEST. ORGANS (150-159)	12	4																	1			
RESPIRATORY SYSTEM (160-163)	4	4																				
BREAST (174-175)		6																				
GENITAL ORGANS (179-187)	3	3																				
URINARY ORGANS (188-189)	2	1																				
LEUKEMIA (204-208)	3																					
OTHER (140-208)	9	7																				
DIABETES MELLITUS (250)	2	4																				1
DISEASE OF CIRCULATORY SYSTEM (390-459)	73	66																				
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	56	54																				
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)		1																				
HYPERTENSIVE HEART (402,404)	6	3																				
ISCHEMIC HEART (410-414)	29	33																				
OTHER HEART DISEASE (415-417,420-429)	21	17																				
HYPERTENSION (401,403)		1																				
CEREBROVASCULAR DISEASE (430-438)	15	5																				
ARTERIOSCLEROSIS (440)	1	2																				
OTHER CIRCULATORY (441-459)	1	4																				
INFLUENZA/PNEUMONIA (480-487)	8	3																				
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	2	2								1												
PEPTIC ULCER (531-533)	1																					
CIRRHOSIS OF LIVER (571)	2	2																				
NEPHRITIS AND NEPHROSIS (580-589)	2	2																				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)	2		2																			
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)	1																					
ALL OTHER DISEASES (BLANKS,000-799)	21	10														1			1		1	
ACCIDENTAL DEATHS (800-949)	11	2	1		2						2		2				1		2			
MOTOR VEHICLE (810-825)	8	1			1						2		2						2			
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)																						
FALLS (880-888)		1																				
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)	2				1												1					
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	1		1																			
SUICIDE (950-959)	6								1		1						1				1	
HOMICIDE & LEGAL INTERVENTION (960-978)	2	1													1				1			1
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)																						

TABLE 32D (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
KAUAI COUNTY 1983

	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
UNKNOWN SEX IN MALE CATEG.	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	2		1	6	6	6	5	3	12	8	14	12	31	12	26	23	25	18	23	26		
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)																1						
MALIGNANT NEOPLASM (140-208)				5	2	3	3	1	2	2		4	11	2	5	6	6		3	2		
DIGEST. ORGANS (150-159)					2		2		1	1			2		1	1			2	2		
RESPIRATORY SYSTEM (160-163)				2		1			1						1	1	2					
BREAST (174-175)						1						3		2								
GENITAL ORGANS (179-187)				1									1			2	2					
URINARY ORGANS (188-189)										1			1				1					
LEUKEMIA (204-208)													2		1							
OTHER (140-208)				2		1		1				1	5		2	2	1		1			
DIABETES MELLITUS (250)										1						2	1		1			
DISEASE OF CIRCULATORY SYSTEM (390-459)					3	2	1	1	8	3	7	6	15	10	14	12	12	15	13	17		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)					1	1	1	1	5	3	4	4	13	8	10	9	10	12	12	16		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)						1																
HYPERTENSIVE HEART (402,404)									1			1		1	1		2		2	1		
ISCHEMIC HEART (410-414)					1		1	1	3	3	1	2	9	6	5	6	6	10	3	5		
OTHER HEART DISEASE (415-417,420-429)									1		3	1	4	1	4	3	2	2	7	10		
HYPERTENSION (401,403)																				1		
CEREBROVASCULAR DISEASE (430-438)					2	1			3		3	1	2	1	3	2	1		1			
ARTERIOSCLEROSIS (440)														1	1	1						
OTHER CIRCULATORY (441-459)												1					1	3				
INFLUENZA/PNEUMONIA (480-487)						1			1		3				1		2	1	1	1		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)								1									1		1			
PEPTIC ULCER (531-533)																			1			
CIRRHOSIS OF LIVER (571)			1	1								1	1									
NEPHRITIS AND NEPHROSIS (580-589)										1							2			1		
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)																						
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)											1											
ALL OTHER DISEASES (BLANKS,000-799)	1				1		1		1	1	3		3		5	2	1	2	3	4		
ACCIDENTAL DEATHS (800-949)												1			1					1		
MOTOR VEHICLE (810-825)												1			1							
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)																						
FALLS (880-888)																				1		
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)																						
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)																						
SUICIDE (950-959)	1												1									
HOMICIDE & LEGAL INTERVENTION (960-978)																						
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)																						

TABLE 32E

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
MAUI COUNTY 1983

CAUSES OF DEATH	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
UNKNOWN SEX IN MALE CATEG.	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	274	188	6	9	3	3	1	1		1	3	1	1		1	1	9		5	4	0	1
TUBERCULOSIS, ALL FORMS (010-018,137)		1																				
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	2	3																				
MALIGNANT NEOPLASM (140-208)	67	42					1				1					1				1		
DIGEST. ORGANS (150-159)	13	15																				
RESPIRATORY SYSTEM (160-163)	26	5																				
BREAST (174-175)	[illegible]	9														1				1		
GENITAL ORGANS (179-187)	[illegible]	3																				
URINARY ORGANS (188-189)	[illegible]	3																				
LEUKEMIA (204-208)	8	2					1				1											
OTHER (140-208)	14	5																				
DIABETES MELLITUS (250)	2	6																				
DISEASE OF CIRCULATORY SYSTEM (390-459)	126	86															1		1	1	3	
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	95	65															1		1	1	3	
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	3																				2	
HYPERTENSIVE HEART (402,404)	4	1																				
ISCHEMIC HEART (410-414)	54	39																			1	
OTHER HEART DISEASE (415-417,420-429)	34	25															1		1	1		
HYPERTENSION (401,403)	1	4																				
CEREBROVASCULAR DISEASE (430-438)	26	16																				
ARTERIOSCLEROSIS (440)																						
OTHER CIRCULATORY (441-459)	4	1																				
INFLUENZA/PNEUMONIA (480-487)	9	5																				
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	3	2						1			1											
PEPTIC ULCER (531-533)	2	1																				
CIRRHOSIS OF LIVER (571)	2	1																				
NEPHRITIS AND NEPHROSIS (580-589)		1																				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)	5	3	3	3	1						1											
PERINATAL CONDITIONS (760-779)	2	4	2	4																		
SYMPTOMS & ILL-DEFINED COND (780-799)	1	2	1	1		1																
ALL OTHER DISEASES (BLANKS,000-799)	28	22			1	1											1		1			
ACCIDENTAL DEATHS (800-949)	15	3			1	1						1	1		1		4		2	1	4	
MOTOR VEHICLE (810-825)	8	2										1					3		1	1	3	
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)																						
FALLS (880-889)	1																		1			
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)	4				1								1				1				1	
FIREARM MISSILES (922)	1														1							
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	1	1				1																
SUICIDE (950-959)	5	2															1			1	1	
HOMICIDE & LEGAL INTERVENTION (960-978)	1	3		1						1							1					1
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	4	1															1		1			

TABLE 32E (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
MAUI COUNTY 1983

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	6	4	9	7	13	7	26	12	27	10	31	12	30	16	33	19	27	27	35	53		
TUBERCULOSIS, ALL FORMS (010-018,137)												1										
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)							1		1	1										2		
MALIGNANT NEOPLASM (140-208)	1	2	5	2	5	6	6	8	7	3	12	3	10	2	9	6	3	2	7	6		
DIGEST. ORGANS (150-159)			2		1	1		1	1	2	4	1	1	1	1	5	1	1	2	3		
RESPIRATORY SYSTEM (160-163)	1	1	2		4	1	2	1	4		4	1	6		3			1				
BREAST (174-175)		1		1		1		2		1										1		
GENITAL ORGANS (179-187)				1		1								1	2				1			
URINARY ORGANS (188-189)							1	1	1						1					2		
LEUKEMIA (204-208)							1	2			2		1						2			
OTHER (140-208)			1			2	2	1	1		2	1	2		2	1	2		2			
DIABETES MELLITUS (250)				1				1				1	1	1	1			1		1		
DISEASE OF CIRCULATORY SYSTEM (390-459)	1	1	4	2	4	1	14	2	16	5	15	7	12	7	15	10	20	19	20	31		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	1	1	4		2		12	2	13	4	11	5	8	5	9	8	15	15	15	24		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	1																					
HYPERTENSIVE HEART (402,404)					1				1								1		1	1		
ISCHEMIC HEART (410-414)		1	4		1		7	1	10	4	9	4	5	5	3	4	6	10	6	10		
OTHER HEART DISEASE (415-417,420-429)							5	1	2		2	1	3		6	4	6	5	8	13		
HYPERTENSION (401,403)				1								1		1	1	1						
CEREBROVASCULAR DISEASE (430-438)				1	2	1	2		2	1	4	1	3	1	5	1	4	4	4	6		
ARTERIOSCLEROSIS (440)																						
OTHER CIRCULATORY (441-459)									1				1				1		1	1		
INFLUENZA/PNEUMONIA (480-487)	1			1	1						1			1	2		2	1	2	2		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)													1	1					1			
PEPTIC ULCER (531-533)															1			1	1			
CIRRHOSIS OF LIVER (571)					1				1					1								
NEPHRITIS AND NEPHROSIS (580-589)																		1				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)																						
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)																						
ALL OTHER DISEASES (BLANKS,000-799)		1		1			4		1	1	3		6	3	5	2	2	2	4	11		
ACCIDENTAL DEATHS (800-949)	1				1																	
MOTOR VEHICLE (810-825)	1																					
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)																						
FALLS (880-888)																						
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)																						
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)					1																	
SUICIDE (950-959)					1		1		1							1						
HOMICIDE & LEGAL INTERVENTION (960-978)																						
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	2							1														

TABLE 33

TOTAL RECORDED DEATHS FROM MALIGNANT NEOPLASM BY MAJOR AND SELECTED SITES, SEX, AND AGE
STATE OF HAWAII 1983

CAUSES OF DEATH		ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
UNKNOWN SEX IN MALE CATEG.		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
BUCCAL CAVITY AND PHARYNX	140-149	25	15													1				1	2	2	
LIP	140																						
TONGUE	141	2	5																		1	1	
SALIVARY GLAND	142																						
GUM	143	1																		1			
FLOOR OF MOUTH	144	1	1																				
OTHER & UNSPEC PARTS OF MOUTH	145	5	3																				
OROPHARYNX	146	2	2																				
NASOPHARYNX	147	13	4													1					1	1	
HYPOPHARYNX	148																						
UNSPECIF BUCCAL CAVITY AND PHARYNX	149	1																					
DIGESTIVE ORGANS & PERITONEUM	150-159	267	159					1				1								2	1	1	4
ESOPHAGUS	150	25	2																				
STOMACH	151	63	37																		1		
SMALL INTESTINE & DUODENUM	152	2	2																				
LARGE INTESTINE	153	66	59																				3
RECTUM & RECTOSIGMOID JUNCTION	154	15	4																				1
LIVER AND INTRAHEPATIC BILE DUCTS	155	37	12									1								1		1	
GALL BLADDER & BILE DUCTS	156	9	13																				
PANCREAS	157	48	29					1												1			
PERITONEUM & RETROPERITONEAL TISS	158																						
UNSPEC DIGESTIVE ORGANS	159	2	1																				
RESPIRATORY SYSTEM	160-165	204	86																		1	1	
NOSE,NASAL CAV, MIDDLE EAR & ACCES	160	2																					
LARYNX	161	4	1																				
TRACHEA, BRONCHUS & LUNG	162	197	85																		1	1	
OTHER AND UNSPECIFIED ORGANS	163-165	1																					
BONE, CONN TISSUE, SKIN BREAST	170-175	26	114						1	1				1		1	1	2	4	2	2	1	6
BONE	170	4												1		1				1			
CONNECTIVE & OTHER SOFT TISSUE	171	7	8						1	1								1					1
MELANOMA OF SKIN	172	9	5															1		1		1	
NEOPLASM OF SKIN	173	6	1																				
BREAST	174-175		100														1		2		2		5
GENITOURINARY ORGANS	179-189	99	78							1		1				1				1		1	2
CERVIC UTERI	180		10																				1
PLACENTA	181																						
OTHER MALIG NEOPLASM OF UTERUS	179,182		20																				
OVARY, FALLOP TUBE & BROAD LIGAM	183		34									1											1
OTHER & UNSPEC FEMALE GENITAL ORG	184		1																				
PROSTATE	185	53																					
TESTIS	186	2														1						1	
OTHER & UNSPEC MALE GENITAL ORGAN	187																						
BLADDER	188	23	8																				
OTHER & UNSPEC URINARY ORGANS	189	21	5							1										1			
OTHER AND UNSPECIFIED SITES	190-199	61	55			2			1			1		1		1			2		1	2	1
EYE	190	1																					
BRAIN	191	10	9						1			1		1							1	1	1
OTHER PARTS OF NERVOUS SYSTEM	192	1	2																				
THYROID GLAND	193	2	4																				
OTHER ENDOCRINE GLANDS	194	2	2			2													1				
ILL-DEFINED SITES	195																						
SECONDARY & UNSPECIFIED MALIGNANT NEOPLASM OF LYMPH NODES	196	6	3																				
SECONDARY MALIGNANT NEOPLASM OF RESPIRATORY & DIGESTIVE SYSTEMS	197	1																					
OTHER SECONDARY MALIG NEOPLASM	198																						
WITHOUT SPECIFICATION OF SITE	199	38	35													1			4			1	
LYMPHATIC & HEMATOPOIETIC TISS	200-208	84	52	1		1		1	2		1	1		1	1	5	2	1		3	2	4	1
LYMPHOSARCOMA & RETIC-CELL SARCO	200	7	5												1								
HODGKINS DISEASE	201	5	2													1	1			2	1	1	
OTHER NEOPLASMS OF LYMPHOID TISS	202	20	12	1												2						2	1
MULTIPLE MYELOMA	203	10	9																				
LYMPHATIC LEUKEMIA	204	11	4			1		1	1		1			1								1	
MYELOID LEUKEMIA	205	17	11									1				2		1		1	1		
MONOCYTIC LEUKEMIA	206	1	1																				
OTHER AND UNSPECIFIED LEUKEMIA	207-208	13	8						1								1						
TOTAL MALIGNANT NEOPLASMS	140-208	766	559	1		3		2	4	2	1	2	2	3	1	9	3	3	4	9	9	12	14

TABLE 33 (CONT'D)

TOTAL RECORDED DEATHS FROM MALIGNANT NEOPLASM BY MAJOR AND SELECTED SITES, SEX, AND AGE
STATE OF HAWAII 1983

UNKNOWN SEX IN MALE CATEG.		40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
BUCCAL CAVITY AND PHARYNX	140-149	2		1		2	1	2	2	1	3	5	3	4	1	2	2			2	1		
LIP	140																						
TONGUE	141							1	1				2				1						
SALIVARY GLAND	142																						
GUM	143																						
FLOOR OF MOUTH	144										1					1							
OTHER & UNSPEC PARTS OF MOUTH	145									1	2	1	1	2						1			
OROPHARYNX	146											1			1	1	1						
NASOPHARYNX	147	2		1		2	1	1	1			2		2						1	1		
HYPOPHARYNX	148																						
UNSPECIF BUCCAL CAVITY AND PHARYNX	149											1											
DIGESTIVE ORGANS & PERITONEUM	150-159	5	3	8	3	20	7	33	9	40	19	43	18	47	23	32	23	15	14	20	30		
ESOPHAGUS	150	1		1	1	1		3		4		5		5	1	2		1		2			
STOMACH	151	1	1	3		4	3	7	2	5	4	10	6	9	5	11	5	7	2	6	8		
SMALL INTESTINE & DUODENUM	152							1						1							2		
LARGE INTESTINE	153	1	2	1	1	3	2	6	5	15	9	9	8	16	5	7	6	4	5	4	13		
RECTUM & RECTOSIGMOID JUNCTION	154	2				2		1		2		2	1	1	1	1			1	4			
LIVER AND INTRAHEPATIC BILE DUCTS	155			2		3		8		7		5		3	3	5	2	1	3	1	3		
GALL BLADDER & BILE DUCTS	156				1	1		2	1	1	1	2		1	1		3	1	3	1	3		
PANCREAS	157			1		5	2	5	1	6	5	10	3	10	6	6	7	1	4	2	1		
PERITONEUM & RETROPERITONEAL TISS	158																						
UNSPEC DIGESTIVE ORGANS	159					1								1	1								
RESPIRATORY SYSTEM	160-165	4	3	9	5	17	8	26	14	39	8	38	18	30	11	23	8	16	6	1	4		
NOSE,NASAL CAV, MIDDLE EAR & ACCES	160													1		1							
LARYNX	161							1						2		1	1						
TRACHEA, BRONCHUS & LUNG	162	4	3	9	5	17	8	25	14	39	8	38	18	26	11	21	7	16	6	1	4		
OTHER AND UNSPECIFIED ORGANS	163-165													1									
BONE, CONN TISSUE, SKIN BREAST	170-175	1	5	1	7	2	16	4	17	2	20	5	16	2	7		7	1	4		3		
BONE	170							1															
CONNECTIVE & OTHER SOFT TISSUE	171	1					1	1	2	1		1	1	1			1		1				
MELANOMA OF SKIN	172			1	1	2	1	1	2			2	1										
NEOPLASM OF SKIN	173							1		1		2		1				1	1				
BREAST	174-175		5		6		14		13		20		14		7		6		2		3		
GENITOURINARY ORGANS	179-189	1	5	1	6	1	5	4	9	8	11	16	11	17	6	19	6	17	9	11	7		
CERVIC UTERI	180		2				1		1		1		2		1						1		
PLACENTA	181																						
OTHER MALIG NEOPLASM OF UTERUS	179,182		2		2				4		2		3		1		4		2				
OVARY, FALLOP TUBE & BROAD LIGAM	183		1		4		4		3		6		5		2		2		4		1		
OTHER & UNSPEC FEMALE GENITAL ORG	184																				1		
PROSTATE	185							2		2		10		9		12		11		7			
TESTIS	186																						
OTHER & UNSPEC MALE GENITAL ORGAN	187																						
BLADDER	188	1				1		1		1	1	4	1	3	1	6		4	3	2	2		
OTHER & UNSPEC URINARY ORGANS	189			1				1	1	5	1	2		5	1	1		2		2	2		
OTHER AND UNSPECIFIED SITES	190-199	1	2	2	1	4	7	2	4	3	5	7	3	16	6	10	10	4	4	5	8		
EYE	190													1									
BRAIN	191						2	1		1	1	1		2		2	2		1				
OTHER PARTS OF NERVOUS SYSTEM	192								1						1	1							
THYROID GLAND	193		1			1								1	1		1				1		
OTHER ENDOCRINE GLANDS	194								1														
ILL-DEFINED SITES	195																						
SECONDARY & UNSPECIFIED MALIGNANT NEOPLASM OF LYMPH NODES	196										1			3		1		1		1	2		
SECONDARY MALIGNANT NEOPLASM OF RESPIRATORY & DIGESTIVE SYSTEMS	197															1							
OTHER SECONDARY MALIG NEOPLASM	198																						
WITHOUT SPECIFICATION OF SITE	199	1	1	2	1	3	5	1	2	2	3	6	3	9	4	5	7	3	3	4	5		
LYMPHATIC & HEMATOPOIETIC TISS	200-209	5		2	3	2	2	7	3	10	7	9	12	14	3	9	5	4	3	4	5		
LYMPHOSARCOMA & RETIC-CELL SARCO	200	1		1				1		2	1		2	1		1			1				
HODGKINS DISEASE	201	1																					
OTHER NEOPLASMS OF LYMPHOID TISS	202			1	2	1	2	3		2	2	1	1	3	1	2	1	1		1	2		
MULTIPLE MYELOMA	203									2	3	1	4	4	1	2		1			1		
LYMPHATIC LEUKEMIA	204	2				1					1	1		1				1	1	1			
MYELOID LEUKEMIA	205								1	2		3	2	3	1	3	4	1	1		1		
MONOCYTIC LEUKEMIA	206												1			1							
OTHER AND UNSPECIFIED LEUKEMIA	207-208	1			1			3	2	2		3	2	2						2	1		
TOTAL MALIGNANT NEOPLASMS	140-208	19	18	24	25	48	46	78	58	103	73	123	81	130	57	95	61	57	44	43	56		

TABLE 34

HAWAII RESIDENT DEATHS OCCURRING OUTSIDE THE STATE BY RACE, AGE, AND SEX*
1983

AGE	TOTAL		CAUCASIAN		JAPANESE		CHINESE		FILIPINO		HAWAIIAN PART-HAWAIIAN		BLACK		OTHER ASIAN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL	42	27	28	17	7	-	1	3	4	3	1	2	1	1	-	1
UNDER 1	4	5	3							2		1	1	1		1
1 - 19																
20 - 24	1	2	1	2												
25 - 34	6	2	5	2	1											
35 - 44	4	1	2		1					1	1					
45 - 54	3	3	2	2	1							1				
55 - 64	4		1		2		1									
65 - 74	9	6	6	4	1			2	2							
75 - 84	10	5	7	5	1				2							
85 +	1	3	1	2				1								

*INCLUDES DEATHS OCCURRING IN THE UNITED STATES, PUERTO RICO, GUAM, VIRGIN ISLANDS, AND THE DISTRICT OF COLUMBIA.

TABLE 35

TOTAL RECORDED DEATHS BY ISLAND OF OCCURRENCE, BY METHOD OF DISPOSITION AND AUTOPSY PERFORMED
STATE OF HAWAII 1983

ISLAND OF OCCURRENCE	METHOD OF DISPOSITION								AUTOPSY PERFORMED						PRE SUMPTIVE DEATHS
									PRIV. PHY.		MED.EX./COR.PHY.		OTHER		
	TOTAL	BURIAL	CRE-MATION	RE-MOVAL	ENTOMB-MENT	EDUC. PURPOSE	OTHER	UNK.	TOTAL	YES	TOTAL	YES	TOTAL	YES	
TOTAL	5725	2513	2588	594	25		3	2	4682	523	1039	810			4
HAWAII	535	257	241	33	1		1	2	411	38	122	120			2
OAHU	4451	1905	2050	472	24				3727	432	724	520			
KALAWAO COUNTY	2	2							2						
KAUAI	292	136	114	42					234	37	58	43			
NIIHAU															
LANAI	9	5	2	2					7		2	2			
MAUI	402	187	175	39			1		281	16	130	112			1
MOLOKAI (EXCL OF KALAWAO)	33	21	6	6					20		13	13			
UNKNOWN	1						1								1

FIGURE 3
INFANT DEATHS IN HAWAII 1900-1983

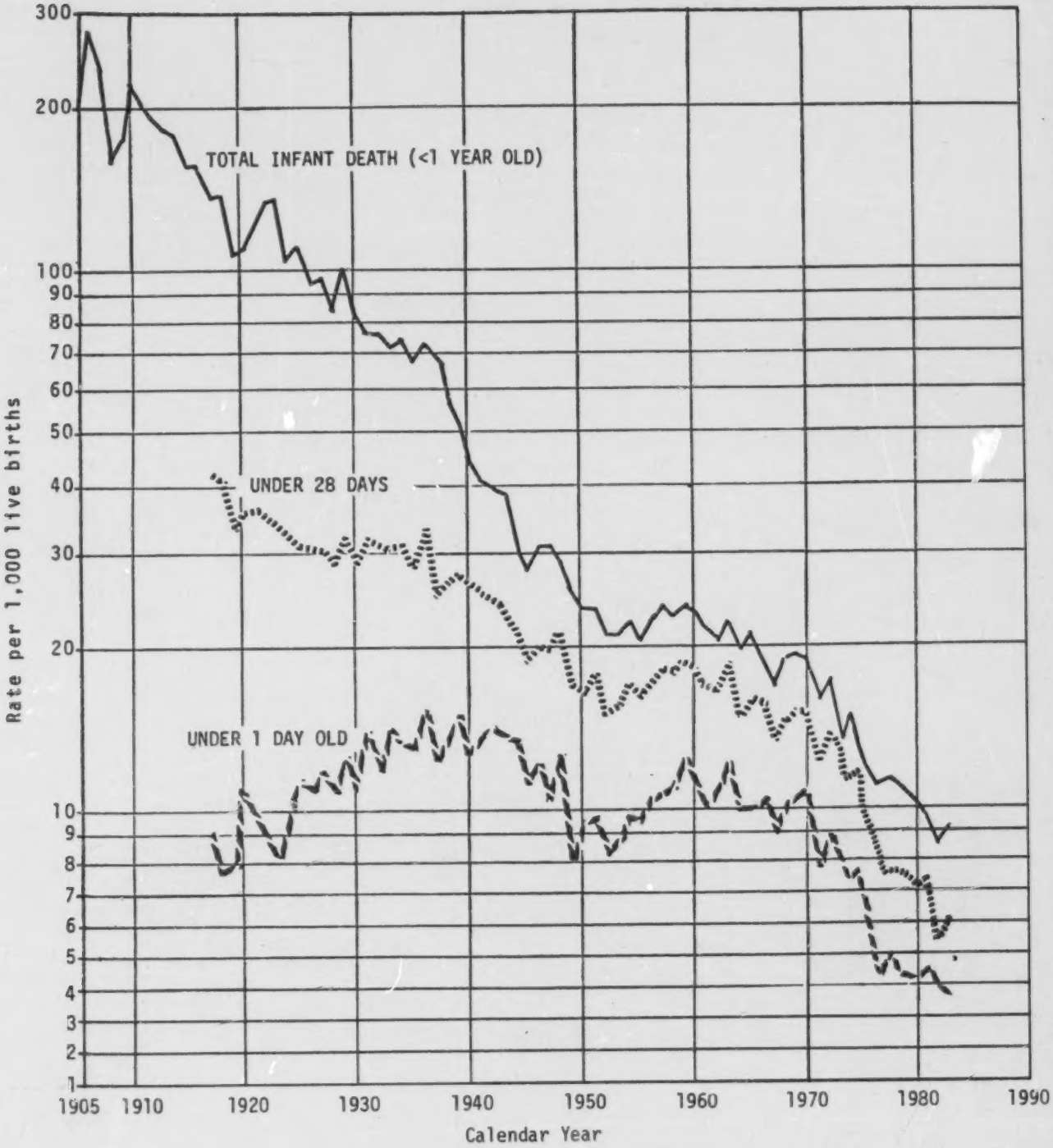


TABLE 36

INFANT DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE BY RACE OF CHILD
STATE OF HAWAII, 1983

GEOGRAPHIC AREA		TOTAL BY PLACE OF OCCURRENCE		TOTAL BY PLACE OF RESIDENCE		PERINATAL MORTALITY		RACE OF CHILD												
		NO.	RATE a/	NO.	RATE a/	NO.	RATE b/	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES
TOTAL RECORDED		191	10.0	191	10.0	274	14.2	51	2	53	7	23	22	1	5	7	9	1		10
STATE OF HAWAII	NUMBER	191	10.0	175	9.2	267	13.9	46	2	53	7	22	22	1	5	4	8	1		4
	RATE*	10.0		9.2				10.2	30.8	9.2	9.8	7.8	8.8	5.1	16.1	7.8	9.8	5.2		7.1
COUNTY OF HAWAII		9	4.8	17	8.8	29	15.0	5		9		2	1							
CITY OF HILO		6	5.1	5	7.8	14	21.6	1		3		1								
BALANCE OF CTY		3	4.3	12	9.3	15	11.6	4		6		1	1							
COUNTY OF HONOLULU		175	11.7	140	9.5	211	14.2	37	2	34	7	19	20	1	5	4	8			3
CITY OF HONOLULU		154	11.6	54	9.1	95	15.9	11		11	4	11	10		3		3			1
BALANCE OF CTY		21	12.1	86	9.8	116	13.1	26	2	23	3	8	10	1	2	4	5			2
COUNTY OF KALAWAO																				
COUNTY OF KAUAI		1	1.2	3	3.6	7	8.3	1		2										
ISLAND OF KAUAI		1	1.2	3	3.6	7	8.3	1		2										
ISLAND OF NIIHAU																				
COUNTY OF MAUI		6	4.0	15	9.3	20	12.2	3		8		1	1					1		1
ISLAND OF LANAI																				
ISLAND OF MAUI		5	3.5	12	8.3	17	11.7	2		6		1	1					1		1
ISLAND OF MOLOKAI (EXCL. KALAWAO)		1	12.8	3	20.5	3	20.3	1		2										
NON-RESIDENT				16	219.2	7	92.1	5				1				3	1			6

a/ NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS
b/ RESIDENT INFANT DEATHS UNDER 1 WEEK OF AGE AND FETAL DEATHS OF 20 WEEKS OR MORE GESTATION DIVIDED BY THE SUM OF TOTAL RESIDENT LIVE BIRTHS PLUS RESIDENT FETAL DEATHS OF 20 WEEKS OR MORE GESTATION

TABLE 37

RESIDENT INFANT DEATHS BY AGE AND RACE OF MOTHER
STATE OF HAWAII, 1983

AGE OF MOTHER		ALL RACES		RACE OF MOTHER														
		NO.	RATE*	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES	UNKN
ALL AGES	NUMBER	175	9.2	50	2	41	8	26	21	1	3	3	5	3		5	7
	RATE*	9.2		8.4	13.2	10.1	10.9	8.5	8.3	5.7	7.3	5.8	8.2	11.2		9.7	
UNDER 15																	
15 - 17		8	14.2			7				1							
18 - 19		18	12.5	6		4		3			1	1	1	2			
20 - 24		46	7.4	17		13	1	4	3			1	3			4	
25 - 29		49	8.3	15	2	14	3	7	6		1		1				
30 - 34		34	9.2	10		1	2	9	10			1		1			
35 - 39		9	7.7	1		2	2	1	1		1					1	
40 - 44		3	19.4	1				1	1								
45 & OVER		1	142.9					1									
UNKNOWN		7															7

* NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS

TABLE 38

RESIDENT INFANT DEATHS BY RACE OF MOTHER AND MONTH OF FIRST PRENATAL VISIT
STATE OF HAWAII, 1983

RACE OF MOTHER		NO.	RATE*	MONTH OF FIRST PRENATAL VISIT										
				1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	NONE	UNKNOWN
ALL RACES	NUMBER	175	9.2	30	55	27	16	15	8	3	3		4	12
	RATE*	9.2		11.7	7.9	6.0	8.3	12.2	11.3	7.0	8.2		48.8	
CAUCASIAN		50	8.4	8	21	7	7	4	1				1	1
HAWAIIAN		2	13.2							1			1	
PART HAWAIIAN		41	10.1	4	14	6	4	5	3	2	1			2
CHINESE		8	10.9	1	4	3								
FILIPINO		26	8.5	5	5	7	3	3	2					1
JAPANESE		21	8.3	8	7	3	2	1						
PUERTO RICAN		1	5.7					1						
KOREAN		3	7.3	1	1								1	
SAMOAN		3	5.8					1	1		1			
NEGRO		5	8.2		3	1								1
PORTUGUESE		3	11.2	3										
VIETNAMESE														
OTHER RACES		5	9.7						1		1		3	
UNKNOWN		7												7

* NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS

TABLE 39

RESIDENT INFANT MORTALITY BY RACE OF CHILD AND AGE, LOW BIRTHWEIGHT INFANT DEATHS
STATE OF HAWAII, 1983

RACE OF CHILD	NUMBER OF INFANT DEATHS AGE AT DEATH (DAYS)					INFANT DEATH RATE a/					LOW BIRTH WEIGHT INFANTS WHO DIED b/	
	TOTAL	UNDER 1 DAY	1-6	7-27	28 DAYS TO 11 MOS	TOTAL	UNDER 1 DAY	UNDER 1 WEEK	UNDER 28 DAYS	28 DAYS TO 11 MOS	NO.	RATE c/
ALL RACES	175	71	28	19	57	9.2	3.7	5.2	6.2	3.0	104	84.6
CAUCASIAN	46	22	3	7	14	10.2	4.9	5.5	7.1	3.1	23	101.3
HAWAIIAN	2				2	30.8	--	--	--	30.8	1	142.9
PART HAWAIIAN	53	22	14	3	14	9.2	3.8	6.3	6.8	2.4	35	94.1
CHINESE	7	1	2	2	2	9.8	1.4	4.2	7.0	2.8	4	87.0
FILIPINO	22	8	2	4	8	7.8	2.8	3.5	5.0	2.8	14	57.6
JAPANESE	22	8	3	1	10	8.8	3.2	4.4	4.8	4.0	13	89.0
PUERTO RICAN	1				1	5.1	--	--	--	5.1		
KOREAN	5	4			1	16.0	12.8	12.8	12.8	3.2		50.0
SAMOAN	4	1	1	1	1	7.8	1.9	3.9	5.8	1.9		
NEGRO	8	2	1	1	4	9.8	2.4	3.7	4.9	4.9	5	65.8
PORTUGUESE	1	1				5.2	5.2	5.2	5.2	--		
VIETNAMESE												
OTHER RACES	4	2	2			7.1	3.6	7.1	7.1	--	1	11.1
UNKNOWN												

a/NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS
b/INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
c/NUMBER OF DEATHS PER 1,000 LOW BIRTH WEIGHT LIVE BIRTHS

TABLE 40
RESIDENT INFANT MORTALITY BY SELECTED CAUSES BY BIRTH WEIGHT, SEX AND AGE, NEONATAL DEATHS
STATE OF HAWAII, 1983

CAUSE OF DEATH a/	TOTAL			BIRTH WEIGHT			SEX			AGE AT DEATH				NEONATAL DEATHS c/	
	NO.	RATE b/	PER CENT	2500 GMS UNDER	OVER 2500 GMS	UNK	MALE	FEMALE	UNK	UNDER 1 DAY	1-6 DAYS	7-27 DAYS	28 DAYS TO 11 MOS	NO.	RATE b/
ALL CAUSES	175		100.0	101	61	13	96	79		71	28	19	57	118	6.2
INTESTINAL INFECTIVE DISEASES (001-009)															
OTHER INFECTIVE DISEASES (010-139)	1		.6	1			1				1			1	0.1
INFECTIONS OF NEWBORN (771)	3		1.7	3				3		1	1		1	2	0.1
MENINGITIS (320-322)	1		.6			1		1					1		
PNEUMONIA (480-486,7700)	3		1.7	3			2	1		1			2	1	0.1
CONGENITAL ANOMALIES OF CIRCULATORY SYST (745-747)	31		17.7	7	22	2	20	11		3	8	6	14	17	0.9
OTHER CONG ANOMAL (740-759)	27		15.4	17	10		13	14		15	4	4	4	23	1.4
MATERNAL CONDITIONS UNRELATED TO PREGNANCY (760)	2		1.1	1	1			2			2			2	0.1
COMPLICATIONS OF PREGNANCY (761)	2		1.1	2			1	1		2				2	0.1
COMPLICATIONS OF PLACENTA CORD & MEMBRANE (762)	7		4.0	6		1	5	2		6	1			7	0.4
OTHER COMPLICATIONS OF LABOR AND DELIVERY (763)															
BIRTH INJURY (767)	2		1.1	2			1	1		1	1			2	0.1
HEMOLYTIC DISEASE OF NEWBORN (773)															
RESPIRATORY DISTRESS SYNDROME (769)	6		3.4	4		2	4	2		4	1		1	5	0.3
ASPHYXIA & HYPOXIA (768)	4		2.3	2	2		2	2		2	1	1		4	0.2
IMMATURITY (765)	15		8.6	15			10	5		15				15	0.8
OTHER PERINATAL (760-779)	30		17.1	28	1	1	18	12		18	6	3	3	27	1.4
SUDDEN INFANT DEATH SYNDROME (7980)	21		12.0	2	14	5	10	11				1	20	1	0.1
ACCIDENTS (800-949)	3		1.7		3		2	1				1	2	1	0.1
OTHER EXTERNAL CONDITIONS (950-959)	1		.6	1				1					1		
ALL OTHER CONDITIONS-RESIDUAL	16		9.1	7	8	1	7	9		3	2	3	8	8	0.4

a/ 9TH ICD
b/ NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS
c/ DEATHS UNDER 28 DAYS OLD

TABLE 41
STANDARD FETAL DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE OF MOTHER AND GESTATION PERIOD
STATE OF HAWAII, 1983

GEOGRAPHIC AREA		TOTAL BY PLACE OF OCCURRENCE		TOTAL BY PLACE OF RESIDENCE			GESTATION PERIOD IN WEEKS										
		NO.	RATE a/	NO.	RATE a/	RATE b/	UNDER 12	12	13	14	15	16-19	20-27	28-35	36-39	40 & OVER	UNKN
TOTAL RECORDED		1,695	88.7	1,699	88.7	81.4	1,117	149	60	59	37	80	97	32	29	12	27
STATE OF HAWAII	NUMBER	1,695	88.7	1,627	85.2	78.5	1,062	142	60	57	36	77	95	32	29	12	25
	PERCENT			100.0				8.7	3.7	3.5	2.2	4.7	5.8	2.0	1.8	0.7	1.5
COUNTY OF HAWAII		148	78.9	146	76.0	70.6	109	5	2	7		4	11	3	2	2	1
CITY OF HILO		140	118.8	59	92.6	84.8	43	2		2		2	6	2	2		
BALANCE OF COUNTY		8	11.5	87	67.8	63.5	66	3	2	5		2	5	1		2	1
COUNTY OF HONOLULU		1,315	87.8	1,267	86.1	79.3	799	126	48	47	31	67	75	23	24	9	18
CITY OF HONOLULU		1,184	89.4	549	93.0	85.1	351	54	20	20	13	28	35	12	8	5	5
BALANCE OF COUNTY		131	75.5	718	81.5	75.4	448	72	23	27	18	41	40	11	16	4	13
COUNTY OF KALAWAO																	
COUNTY OF KAUAI		73	90.7	69	82.5	76.2	47	7	2	2	3	2	1	3	2		
ISLAND OF KAUAI		73	90.7	69	82.6	76.3	47	7	2	2	3	2	1	3	2		
ISLAND OF NIIHAU																	
COUNTY OF MAUI		163	107.9	145	89.5	82.2	107	4	8	1	2	4	8	3	1	1	6
ISLAND OF LANAI				1	28.6	27.8	1										
ISLAND OF MAUI		162	114.0	140	97.3	88.7	104	4	8	1	2	4	8	2		1	6
ISLAND OF MOLOKAI		1	12.8	4	27.4	26.7	2							1	1		
NON-RESIDENT				72	986.3	496.6	55	7		2	1	3	2				2
UNKNOWN																	

a/ NUMBER OF FETAL DEATHS PER 1,000 LIVE BIRTHS
b/ NUMBER OF FETAL DEATHS PER 1,000 DELIVERIES (LIVE BIRTHS AND STANDARD FETAL DEATHS)

TABLE 42
STANDARD FETAL DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE OF MOTHER BY RACE
STATE OF HAWAII, 1983

GEOGRAPHIC AREA	TOTAL BY PLACE OF OCCURRENCE		TOTAL BY PLACE OF RESIDENCE			RACE OF FETUS													
	NUMBER	RATIO a/	NUMBER	RATIO a/	RATE b/	CAUCASIAN	HAWN	PART HAWN	CHI NESE	FILI PINO	JAPA NESE	KOREAN	KO REAN	SAMOAN	NE GRO	PORTO RICAN	VIET NAM ESE	OTHER	UNKN
TOTAL RECORDED	1699	88.7	1699	88.7	81.4	641	16	273	51	203	222	14	39	39	83	24	6	36	56
STATE OF HAWAII NUMBER	1699	88.7	1627	85.2	78.5	565	16	271	50	232	220	14	39	39	82	24	6	34	43
STATE OF HAWAII RATIO a/	88.7		85.2			129.2	276.9	47.2	69.9	71.5	87.7	70.7	125.4	75.9	100.1	123.7	60.0	60.7	
STATE OF HAWAII RATE b/	81.4		78.5			114.4	216.9	45.0	65.4	66.7	80.6	66.0	111.4	70.5	91.0	110.1	56.6	57.2	
COUNTY OF HAWAII	148	78.9	146	76.0	70.6	31	1	34	3	17	24	1	1	2	3	3		6	
CITY OF HILO	140	118.8	59	92.6	84.8	5	1	26	1	3	15		1		2	1		4	
BALANCE OF COUNTY	8	11.5	87	67.8	63.5	26		26	2	14	9	1		2	1	2		2	
COUNTY OF HONOLULU	1315	87.8	1267	86.1	79.3	476	10	109	45	163	162	12	36	37	77	15	6	27	31
CITY OF HONOLULU	1134	89.4	549	93.0	85.1	185	2	53	33	79	86	5	26	17	23	4	6	10	12
BALANCE OF COUNTY	181	75.5	718	81.5	75.4	291	8	116	12	84	76	7	10	20	54	12		9	19
COUNTY OF KALAWAO																			
COUNTY OF KAUAI	73	90.7	69	82.5	76.2	19	3	16	1	8	13	1			1	1			6
ISLAND OF KAUAI	73	90.7	69	82.6	76.3	19	3	16	1	8	13	1			1	1			6
ISLAND OF NIIHAU																			
COUNTY OF MAUI	163	107.9	145	89.5	82.2	59	4	32	1	14	21		2		1	4		1	6
ISLAND OF LANAI			1	28.6	27.8	1													
ISLAND OF MAUI	162	114.0	140	97.3	88.7	57	3	31	1	13	21		2		1	4		1	6
ISLAND OF MOLOKAI	1	12.8	4	27.4	26.7	1	1	1		1									
NON-RESIDENT			72	986.3	896.6	56		2	1	1	2				1			2	7
UNKNOWN																			

a/ NUMBER OF FETAL DEATHS PER 1,000 LIVE BIRTHS
b/ NUMBER OF FETAL DEATHS PER 1,000 DELIVERIES (LIVE BIRTHS AND STANDARD FETAL DEATHS)

TABLE 43
STANDARD FETAL DEATHS BY CAUSE AND GESTATION PERIOD
STATE OF HAWAII, 1983

CAUSE	CODE*	TOTAL NUMBER	TOTAL PERCENT	GESTATION PERIOD IN WEEKS: UNDER 12	12	13	14	15	16-19	20-27	28-35	36-39	40 & OVER	UNKN
ALL CAUSES	ALL	1,699	100.0	1,117	149	60	59	37	80	97	32	29	12	27
SPONTANEOUS ABORTION	7618	604	35.6	439	72	18	24	16	22	5		1		7
ALL OTHER ABORTIONS	7796	221	13.0	132	28	13	15	7	19	6				1
CONGENITAL ANOMALIES	740-759	12	.7		1					7	2		2	
CHRONIC CIRCULATORY, RESPIRATORY, AND GENITOURINARY DISEASES IN THE MOTHER	760C,7601,7603	6	.4							3	2	1		
MATERNAL CONDITIONS UNRELATED TO PREGNANCY	7602,7604-7609	1	.1											1
COMPLICATIONS OF PREGNANCY AND CHILDBIRTH	7610-7617,7619	244	14.4	206	6	1	4		3	10	3			11
DIFFICULT LABOR WITH OR WITHOUT MENTION OF BIRTH INJURY	763	1	.1							1				
COMPLICATIONS OF PLACENTA, CORD AND MEMBRANES	762	87	5.1	13	2	6	1	2	8	20	15	14	3	3
BIRTH INJURY WITHOUT MENTION OF CAUSE	767													
HEMOLYTIC DISEASE OF NEWBORN	773	2	.1							1		1		
OTHER CONDITIONS OF FETUS	764-766,768-770	9	.5						2	6		1		
UNKNOWN	7799	506	29.8	324	40	22	15	12	26	38	9	10	6	4
ALL OTHER CAUSES	RESIDUAL	6	.4	3							1	1	1	

TABLE 44
STANDARD FETAL DEATHS BY AGE OF MOTHER AND GESTATION PERIOD
STATE OF HAWAII, 1983

AGE OF MOTHER IN YEARS	TOTAL			GESTATION PERIOD IN WEEKS: NUMBER											GESTATION PERIOD IN WEEKS: PERCENT						
	NO.	RATIO*	PER-CENT	<12	12	13	14	15	16 TO 19	20 TO 27	28 TO 35	36 TO 39	40 & OVER	UNKN	UNDER 12	UNDER 20	UNDER 28	UNDER 36	36 TO 39	40 & OVER	UNKN
ALL AGES	1,699	89.0	100.0	1,117	149	60	59	37	80	97	32	29	12	27	65.7	88.4	94.1	96.0	1.7	.7	1.6
UNDER 15	5	357.1	.3	5											100.0	100.0	100.0	100.0			
15 - 17	44	78.0	2.6	26	2	1	1	1	3	7	1			2	59.1	77.3	93.2	95.5			4.5
18 - 19	100	69.7	5.9	67	10	3	3	2	8	3	2	2			67.0	93.0	96.0	98.0	2.0		
20 - 24	444	71.8	26.1	280	48	18	9	11	14	27	14	13	5	5	63.1	85.6	91.7	94.8	2.9	1.1	1.1
25 - 29	508	86.4	29.9	348	35	14	20	14	22	31	4	6	3	11	68.5	89.2	95.3	96.1	1.2	.6	2.2
30 - 34	366	99.5	21.5	236	34	12	17	8	24	19	7	3	2	4	64.5	90.4	95.6	97.5	.8	.5	1.1
35 - 39	178	152.4	10.5	120	15	7	7	1	7	8	4	3	2	4	67.4	88.2	92.7	94.9	1.7	1.1	2.2
40 - 44	42	271.0	2.5	27	4	5	2		1	2		1			64.3	92.9	97.6	97.6	2.4		
45 - 49	6	857.1	.4	4					1			1			66.7	83.3	83.3	83.3	16.7		
50 & OVER																					
UNKNOWN	6		.4	4	1									1	66.7	83.3	83.3	83.3			16.7

* NUMBER OF FETAL DEATHS PER 1,000 LIVE BIRTHS

TABLE 45
STANDARD FETAL DEATHS BY RACE OF MOTHER AND AGE OF MOTHER
STATE OF HAWAII, 1983

ALL RACES		RACE OF MOTHER															
		NO.	PER CENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERRCAN	KOREAN	SAMOAN	NEGRO	PORTGESE	VIETNESE	OTHER	UNKN
	NUMBER	1699	100.0	623	19	239	52	223	230	12	43	43	67	36	9	48	55
	PERCENT	100.0		36.7	1.1	14.1	3.1	13.1	13.5	.7	2.5	2.5	3.9	2.1	.5	2.8	3.2
UNDER 15		5	.3	2		1			1							1	
15 - 17		44	2.6	10	1	11	1	8	2		1	1	3	2		3	1
18 - 19		100	5.9	41	4	21		11	7	2			2	5	1	4	2
20 - 24		444	26.1	184	3	87	7	51	31	1	4	13	26	15	2	9	11
25 - 29		508	29.9	198	9	67	17	65	70	7	10	11	22	8	2	9	13
30 - 34		366	21.5	116		32	19	43	75	2	16	12	11	5	2	14	19
35 - 39		178	10.5	61	1	15	6	27	39		8	6	3	1	2	7	2
40 - 44		42	2.5	11	1	4	1	15	3		2					1	4
45 - 49		6	.4					3	1		2						
50 & OVER																	
UNKNOWN		6	.4			1	1		1								3

TABLE 46

ELECTIVE ABORTIONS BY RACE OF MOTHER AND AGE OF MOTHER
STATE OF HAWAII, 1983

MOTHERS AGE IN YEARS		NO.	PERCENT	ABORTIONS PER 1000 LIVE BIRTHS	RACE OF MOTHER: CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	NEGRO	SAMOAN	VIETNAMESE	PORTUGESE	OTHER RACES	UNKNOWN
	NUMBER	6,041		316.4	1871	108	864	229	916	1031	39	287	164	121	26	49	134	202
	PERCENT		100.0		31.0	1.8	14.3	3.8	15.2	17.1	.6	4.8	2.7	2.0	.4	.8	2.2	3.3
UNDER 15		44	.7	3142.9	12		11		10	4			1	2		1	2	1
15 - 17		438	7.3	776.6	111	13	81	7	84	94	5	6	7	6		4	9	11
18 - 19		839	13.9	584.7	212	23	147	36	135	160	5	22	12	19	3	14	16	35
20 - 24		2,071	34.3	334.7	628	44	363	72	306	328	16	55	89	40	6	15	42	67
25 - 29		1,333	22.1	226.6	495	19	142	35	185	198	8	97	31	30	3	10	32	48
30 - 34		806	13.3	219.1	255	6	72	48	108	143	4	76	16	13	9	3	26	27
35 - 39		401	6.6	343.3	137	3	38	24	67	75	1	21	6	6	4	2	7	10
40 - 44		94	1.6	606.5	14		9	6	19	27		10	1	5	1			2
45 - 49		7	.1	1000.0	3		1	1	1	1								
50 & OVER																		
UNKNOWN		8	.1		4				1	1			1					1

TABLE 47

ELECTIVE ABORTIONS BY AGE OF MOTHER AND LENGTH OF GESTATION PERIOD
STATE OF HAWAII, 1983

AGE OF MOTHER	TOTAL	GESTATION PERIOD IN WEEKS: UNDER 6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 & OVER	UNKN
ALL AGES	6,041	149	751	814	1,383	753	859	301	387	140	143	67	74	39	70	46	22	27	16
UNDER 15	44		2	2	9	7	8	2	5		2	4	1	1				1	
15 - 17	438	6	60	54	81	45	66	30	20	16	13	5	5	4	12	12	2	7	
18 - 19	839	20	97	90	153	127	109	56	74	16	23	13	21	7	18	5	5	4	1
20 - 24	2,071	45	248	264	476	258	311	107	138	48	49	26	23	17	22	16	6	10	5
25 - 29	1,333	40	158	218	321	169	185	60	68	39	28	5	13	7	5	3	4	4	6
30 - 34	806	20	117	115	220	86	115	27	41	15	18	9	4	2	8	4	4		1
35 - 39	401	13	54	53	93	52	54	15	36	4	7	4	4	1	3	4	1		3
40 - 44	94	5	14	15	19	9	10	3	5	2	3	1	3		2	2		1	
45 - 49	7		1	2	3			1											
50 & OVER																			
UNKNOWN	8			1	6		1												

TABLE 48
ELECTIVE ABORTIONS BY LEGITIMACY AND RACE OF MOTHER
STATE OF HAWAII, 1983

LEGITIMACY STATUS	TOTAL	RACE OF MOTHER													
		CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	NEGRO	SAMOAN	PORTUGUESE	VIETNAMESE	OTHER RACES	UNKNOWN
TOTAL	6,041	1,871	108	864	229	916	1,031	39	287	164	121	26	49	134	202
LEGITIMATE	1,382	338	11	200	77	204	215	4	94	31	30	7	12	38	41
ILLEGITIMATE	4,520	1,465	95	650	147	621	789	35	192	127	89	18	37	96	159
UNKNOWN	139	66	2	14	5	11	27		1	6	2	1			2

TABLE 49
ELECTIVE ABORTIONS BY LEGITIMACY STATUS AND AGE OF MOTHER
STATE OF HAWAII, 1983

LEGITIMACY STATUS	TOTAL	AGE OF MOTHER IN YEARS										
		UNDER 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50 & OVER	UNKNOWN
TOTAL	6,041	44	438	839	2,071	1,333	806	401	94	7		8
LEGITIMATE	1,382		8	46	361	411	301	195	52	5		3
ILLEGITIMATE	4,520	44	424	771	1,658	887	489	202	42	2		1
UNKNOWN	139		6	22	52	35	16	4				4

TABLE 50
ELECTIVE ABORTIONS BY TYPE OF PROCEDURE AND GESTATION PERIOD
STATE OF HAWAII, 1983

TYPE OF PROCEDURE	TOTAL	GESTATION PERIOD IN WEEKS														
		UNDER 6	6	7	8	9	10	11	12	13	14	15	16	17-19	20 & OVER	UNKN
TOTAL	6,041	149	751	814	1,383	753	859	301	387	140	143	67	74	155	49	16
SUCTION CURETTAGE	5,713	147	724	763	1,331	742	857	299	384	138	132	60	48	66	8	14
SHARP D & C	11		1		1	4	1	2		2						
AMNIOTIC FLUID EXCHANGE	1														1	
HYSTERCTOMY	1											1				
HYSTERECTOMY																
PROSTAGLANDIN	83					1	1		1		4	3	15	30	26	2
OTHER	231	2	26	51	51	6			1		7	3	11	59	14	
NOT STATED	1								1							
UNKNOWN																

TABLE 51
ELECTIVE ABORTIONS BY COUNTY OF RESIDENCE AND COUNTY OF OCCURRENCE
STATE OF HAWAII, 1963

COUNTY OF RESIDENCE		NO.	PER-CENT	ABORTIONS PER 1,000 LIVE BIRTHS	COUNTY OF OCCURRENCE: TOTAL	COUNTY OF HAWAII: TOT	HILO CITY	BAL	COUNTY OF HONOLULU: TOT	HON CITY	BAL	KALAWAO CNTY	COUNTY OF KAUAI: TOT	KAUI ISL	NIIHAU ISL	COUNTY OF MAUI: TOT	MAUI ISL	LANAI ISL	MOLOKAI ISL	NON RES	UNK
TOTAL RECORDED	NUMBER	6041	100.0	315.2	6040	330	270	60	5180	4161	1019		187	187		343	334		9		1
	PERCENT	100.0			100.0	5.5	4.5	1.0	85.7	68.9	16.9		3.1	3.1		5.7	5.5		.1		
STATE OF HAWAII		5992	99.2	313.9	5991	330	270	60	5137	4131	1006		187	187		337	328		9		1
COUNTY OF HAWAII		350	5.8	182.2	350	32	267	59	24	21	3										
CITY OF HILO		163	2.7	255.9	163	155	151	4	8	8											
BALANCE OF COUNTY		187	3.1	145.6	187	171	116	55	16	13	3										
COUNTY OF HONOLULU		4965	82.2	337.5	4964	2	2		4960	3977	983		2	2							1
CITY OF HONOLULU		2936	48.6	497.1	2936				2935	2621	314		1	1							
BALANCE OF COUNTY		2029	33.6	230.4	2028	2	2		2025	1356	669		1	1							1
COUNTY OF KALAWAO		1		1000.0	1				1		1										
COUNTY OF KAUAI		238	3.9	284.7	238	1	1		52	40	12		185	185							
ISLAND OF KAUAI		238	3.9	285.0	238	1	1		52	40	12		185	185							
ISLAND OF NIIHAU																					
COUNTY OF MAUI		438	7.3	270.4	438	1		1	100	93	7					337	328		9		
ISLAND OF MAUI		409	6.8	284.2	409	1		1	81	75	6					327	327				
ISLAND OF LANAI		5	.1	142.9	5				4	4						1	1				
ISLAND OF MOLOKAI		24	.4	164.4	24				15	14	1					9			9		
NON-RESIDENT		44	.7	602.7	44				39	27	12					5	5				
UNKNOWN		5	.1	5000.0	5				4	3	1					1	1				

TABLE 52

MARRIAGES BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1983

PLACE OF OCCURR	TOTAL	PERCENT	RATE*	MONTH OF OCCURRENCE JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	UNK
TOTAL	14,062	100.0	13.7	915	999	1,046	1,101	1,208	1,282	1,431	1,363	1,114	1,051	1,117	1,434	1
PERCENT				6.5	7.1	7.4	7.8	8.6	9.1	10.2	9.7	7.9	7.5	7.9	10.2	
STATE OF HAWAII	14,059	100.0	13.7	915	999	1,046	1,100	1,208	1,281	1,430	1,363	1,114	1,051	1,117	1,434	1
COUNTY OF HAWAII	1,141	8.1	11.0	79	94	74	92	89	108	128	109	80	84	81	123	
CITY OF HILO	430	3.1		26	33	34	31	34	45	56	41	31	29	22	48	
BAL. OF COUNTY	711	5.1		53	61	40	61	55	63	72	68	49	55	59	75	
COUNTY OF HONOLUL	9,818	69.8	12.3	667	673	762	782	852	881	997	937	758	716	776	1,016	1
CITY OF HONO.	7,168	51.0		490	483	610	547	610	642	731	669	550	523	578	734	1
BAL. OF COUNTY	2,650	18.8		177	190	152	235	242	239	266	268	208	193	198	282	
COUNTY OF KALAWAO	2											1			1	
COUNTY OF KAUAI	1,342	9.5	30.8	67	93	82	103	131	130	122	142	120	105	125	122	
ISL OF KAUAI	1,341	9.5		67	93	82	103	131	130	122	141	120	105	125	122	
ISL OF NIIHAU	1										1					
COUNTY OF MAUI	1,756	12.5	22.0	102	139	128	123	136	162	183	175	155	146	135	172	
ISL OF LANAI	10	.1	4.7	2				1	1			2	2	1	1	
ISL OF MAUI	1,698	12.1	23.8	98	128	125	121	129	157	176	169	149	142	130	164	
ISL OF MOLOKAI	48	.3	7.7	2	1	3	2	6	4	7	6	4	2	4	7	
UNKNOWN	3						1		1	1						

*RATE PER 1,000 POPULATION

TABLE 53

MARRIAGES BY AGE OF GROOM AND AGE OF BRIDE
STATE OF HAWAII, 1983

AGE OF GROOM	TOT	PERCENT	AGE OF BRIDE 15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & >	UNK
ALL AGES	14,062	100.0	192	1174	4381	3677	2115	1047	613	381	216	140	106	47	9	11	3
PERCENT			1.4	8.3	31.2	26.1	15.0	7.4	4.4	2.7	1.5	1.0	.8	.3	.1	.1	
15 - 17	24	.2	15	7	2												
18 - 19	444	3.2	54	222	150	13	5										
20 - 24	3,693	26.3	100	703	2157	544	132	30	19	6	2						
25 - 29	3,612	25.7	16	146	1376	1541	396	98	21	11	4						1
30 - 34	2,380	16.9	5	25	447	944	700	192	49	13	2	2					1
35 - 39	1,494	10.6	2	16	161	401	485	284	108	32	2	3					
40 - 44	813	5.8		2	46	130	245	214	136	45	10	4	1				
45 - 49	531	3.8		2	17	67	92	114	132	75	24	6	1	1			
50 - 54	372	2.6			14	21	51	57	73	74	58	12	9	3			
55 - 59	266	1.9		1	6	7	13	36	37	67	52	37	9	1			
60 - 64	199	1.4			1	4	9	8	22	37	39	40	34	4	1		
65 - 69	115	.8			2	2	3	10	10	12	13	20	24	17	1	1	
70 - 74	55	.4			2		1	1	3	6	4	7	17	12	4	4	
75 & >	55	.4				3	1	3	3	3	6	9	11	9	3	6	
UNKNOWN	1																1

MEDIAN AGE OF GROOM WITH KNOWN AGES: 29.2

MEDIAN AGE OF BRIDE WITH KNOWN AGES: 26.8

TABLE 54

MARRIAGES BY PREVIOUS MARITAL STATUS OF GROOM AND OF BRIDE BY AGE
STATE OF HAWAII, 1983

AGE IN YEARS		GROOM							BRIDE						
		TOTAL	PERCENT	NEVER MARRIED	WIDOWED	DIVORCED	ANNUL-MENT	UNKNOWN	TOTAL	PERCENT	NEVER MARRIED	WIDOWED	DIVORCED	ANNUL-MENT	UNKNOWN
TOTAL	NUMBER	14,062	100.0	8,914	401	4,695	51	1	14,062	100.0	8,882	398	4,741	40	1
	PERCENT	100.0	...	63.4	2.9	33.4	.4		100.0	...	63.2	2.8	33.7	.3	
15 - 17		24	.2	24					192	1.4	192				
18 - 19		444	3.2	444					1,124	8.0	1,106		18		
20 - 24		3,693	26.3	3,503	1	183	6		4,381	31.2	3,897	8	465	11	
25 - 29		3,612	25.7	2,921	9	673	9		3,677	26.1	2,502	23	1,147	5	
30 - 34		2,380	16.9	1,348	11	1,008	12	1	2,115	15.0	879	39	1,182	14	1
35 - 39		1,494	10.6	437	13	1,032	12		1,047	7.4	208	32	803	4	
40 - 44		813	5.8	128	15	664	6		613	4.4	50	42	518	3	
45 - 49		531	3.8	42	30	458	1		381	2.7	24	27	329	1	
50 - 54		372	2.6	29	41	300	2		216	1.5	9	62	145		
55 - 59		266	1.9	16	60	190			140	1.0	9	50	81		
60 - 64		199	1.4	10	76	111	2		106	.8	1	64	39	2	
65 - 69		115	.8	7	98	50			47	.3	2	33	12		
70 - 74		59	.4	3	38	17	1		9	.1		7	2		
75 & OVER		59	.4	1	49	9			11	.1		11			
UNKNOWN		1		1					3		3				

TABLE 55

MARRIAGES BY OCCUPATION OF GROOM AND OF BRIDE
STATE OF HAWAII, 1983

CODE OCC OF GROOM	TOTAL	PERCENT	OCCUPATION CODE OF BRIDE 0	1	2	3	4	5	6	7	8	9	10	UNKNOWN
TOTAL	14,062	100.0	4,020	2,052	932	3,412	906	155	159	1,538	7	41	332	8
PERCENT			28.6	14.6	6.6	24.3	6.4	1.1	1.1	10.9		.3	5.9	.1
0 NO OCCUPATION	982	7.0	492	70	34	137	53	13	10	120	2	2	47	2
1 PRO,TECH &KIND	2,396	17.0	379	931	184	532	142	23	14	177		3	11	
2 FARM,MAN &OFFI	2,057	14.6	411	323	342	573	163	22	14	196		4	9	
3 CLER & KINDRED	661	4.7	134	75	35	321	31	5	4	46		1	5	
4 SALES WORKERS	827	5.9	146	139	85	226	156	5	2	59		3	6	
5 CRAFT,FOREMEN	1,841	13.1	477	205	92	579	134	44	34	247	1	6	19	3
6 OPERATIVES	866	6.2	318	50	36	272	40	9	37	96		1	7	
7 PRI HOUSEHOLD	1,213	8.6	331	95	50	326	74	11	16	290	1	1	17	1
8 FARM LABORERS	26	.2	12			4			1	6	3			
9 LABOR EX FARM	558	4.0	219	22	33	117	22	8	10	105		19	3	
10 ARMED FORCES	2,629	18.7	1,100	142	36	323	91	15	17	195		1	700	1
UNKNOWN	6		1		1	2				1				1

TABLE 56
MARRIAGES BY PREVIOUS MARITAL STATUS OF GROOM AND OF BRIDE
STATE OF HAWAII, 1983

MARR. STAT. GROOM	TOTAL	PERCENT	MARITAL STATUS OF BRIDE				
			NEVER MARRIED	WIDOWED	DIVORCED	ANNULMENT	UNKNOWN
TOTAL	14,062	100.0	8,882	398	4,741	40	1
PERCENT			63.2	2.8	33.7	.3	
NEVER MARRIED	8,914	63.4	7,161	73	1,658	22	
WIDOWED	401	2.9	58	129	213	1	
DIVORCED	4,695	33.4	1,638	193	2,854	12	
ANNULMENT	51	.4	27	3	16	5	
UNKNOWN	1						1

TABLE 57
MARRIAGES BY NUMBER OF TIMES GROOM AND BRIDE PREVIOUSLY MARRIED
STATE OF HAWAII, 1983

NO. GROOM MARRIED	TOTAL	PERCENT	TIMES PREVIOUSLY MARRIED - BRIDE						
			NONE	1	2	3	4	5 OR >	UNKNOWN
TOTAL	14,062	100.0	8,882	4,199	801	151	24	5	
PERCENT			63.2	29.9	5.7	1.1	.2		
NONE	8,914	63.4	7,161	1,552	172	26	3		
1	4,082	29.0	1,489	2,120	407	56	7	3	
2	873	6.2	190	443	181	48	9	2	
3	154	1.1	36	65	32	18	3		
4	30	.2	5	15	6	2	2		
5 & >	9	.1	1	4	3	1			
UNKNOWN									

TABLE 58
MARRIAGES BY RACE AND AGE OF GROOM
STATE OF HAWAII, 1983

RACE OF GROOM	TOT	PERCENT	AGE OF GROOM														
			15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 &>	UNK
ALL RACES	14,062	100.0	24	444	3693	3612	2380	1494	813	531	372	266	199	115	59	59	1
CAUCASIAN	7,674	54.6	2	164	1675	1691	1383	1027	568	387	286	204	141	83	30	33	
HAWAIIAN	68	.5		7	16	8	10	9	3	5	3	2	1	2	1	1	
PART HAWN	1,561	11.1	9	128	578	402	192	98	66	36	18	18	10	3	2	1	
CHINESE	475	3.4		3	74	185	111	37	25	14	8	4	6	6	1	1	
FILIPINO	1,159	8.2	8	72	411	286	154	77	41	26	17	17	12	6	14	18	
JAPANESE	1,581	11.2	3	23	280	617	348	146	65	28	23	11	20	8	7	2	
PUERTO RCN	116	.8		5	44	32	13	4	6	2	2	1	2	2	2	1	
KOREAN	151	1.1		2	24	52	25	23	11	7	2	2	1	3		1	
SAMOAN	199	1.4	1	6	95	51	19	14	4	5	3	1					
NEGRO	597	4.2		16	329	149	55	25	9	6	3	1	2	1			1
PORTUGUESE	132	.9	1	4	43	33	16	15	3	3	3	4	3	1	2	1	
VIETNAMESE	26	.2			8	10	5		1	2							
OTHER	321	2.3		14	118	96	48	18	11	10	4	1	1				
UNKNOWN	2						1	1									

TABLE 59
MARRIAGES BY RACE AND AGE OF BRIDE
STATE OF HAWAII, 1983

RACE OF BRIDE	TOT	PERCENT	AGE OF BRIDE 15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 &>	UNK
ALL RACES	14,062	100.0	192	1124	4381	3677	2115	1047	613	381	216	140	106	47	9	11	3
CAUCASIAN	7,156	50.9	58	428	1894	1783	1231	678	425	275	161	101	75	32	5	10	
HAWAIIAN	42	.3	2	4	13	5	7	6		2	1	2					
PART HAWN	1,713	12.2	42	283	716	321	191	74	41	23	7	5	6	1	2	1	
CHINESE	485	3.4		23	132	184	76	32	17	8	4	3	4	2			
FILIPINO	1,412	10.0	52	177	548	335	131	75	39	23	11	13	3	3	1		1
JAPANESE	1,852	13.2	10	79	558	720	291	84	43	24	18	10	8	7			
PUERTO RCN	79	.6	5	9	32	9	8	7	1	2	2	2	1	1			
KOREAN	348	2.5	1	9	67	98	80	45	22	12	8		5	1			
SAMOAN	194	1.4	6	25	89	39	12	10	8	3	1	1					
NEGRO	362	2.6	5	44	178	94	24	10	4	1		1					1
PORTUGUESE	125	.9	1	23	45	23	16	6	2	1	2	2	3		1		
VIETNAMESE	47	.3	2	6	15	8	8	3	3	2							
OTHER	245	1.7	8	14	93	58	39	17	8	5	1		1				1
UNKNOWN	2				1		1										

TABLE 60
MARRIAGES BY RESIDENCE OF GROOM AND OF BRIDE
STATE OF HAWAII, 1983

RESID OF GROOM	TOTAL RECORDED	PER CENT	TOTAL	RESIDENCE OF BRIDE: COUNTY OF HAWAII TOTAL	HILO	BAL	COUNTY OF HONOLULU TOTAL	HONO	BAL	KALAWAO	COUNTY OF KAUAI TOTAL	KAUAI	NIIHAU	COUNTY OF MAUI TOTAL	LANAI	MAUI	MOLOKAI	NON RES	UNK
TOTAL	14,062	100.0	9,820	831	268	563	7,784	3,822	3,962		384	384		821	10	771	40	4,240	2
STATE OF HAWAII	9,882	70.3	9,486	813	263	550	7,494	3,683	3,811		378	378		801	10	754	37	395	1
COUNTY OF HAWAII	827	5.9	812	792	255	537	19	9	10					1		1		14	1
CITY OF HILO	250	1.8	245	238	217	21	6	5	1					1		1		5	
BAL. OF COUNTY	577	4.1	567	554	38	516	13	4	9									9	1
COUNTY OF HONOLUL	7,832	55.7	7,468	17	7	10	7,430	3,647	3,783		6	6		15		11	4	364	
CITY OF HONO.	3,627	25.8	3,528	10	7	3	3,509	3,164	345					9		6	3	99	
BAL. OF COUNTY	4,205	29.9	3,940	7		7	3,921	483	3,438		6	6		6		5	1	265	
COUNTY OF KALAWAO																			
COUNTY OF KAUAI	399	2.8	393				20	11	9		371	371		2	1	1		6	
ISL OF KAUAI	399	2.8	393				20	11	9		371	371		2	1	1		6	
ISL OF NIIHAU																			
COUNTY OF MAUI	824	5.9	813	4	1	3	25	16	9		1	1		783	9	741	33	11	
ISL OF LANAI	10	.1	10				1	1						9	9				
ISL OF MAUI	777	5.5	768	4	1	3	22	14	8		1	1		741		741		9	
ISL OF MOLOKAI	37	.3	35				2	1	1					33			33	2	
NONRESIDENTS	4,179	29.7	334	18	5	13	290	139	151		6	6		20		17	3	3,845	
UNKNOWN	1																		1

TABLE 61
MARRIAGES BY RACE OF GROOM AND RACE OF BRIDE
STATE OF HAWAII, 1983

RACE OF GROOM	TOTAL	PERCENT	RACE OF BRIDE: CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNESE	OTHER RACES	UNKN	OUT MARRIAGES TOTAL	OUT MARRIAGES RATE/1000
ALL RACES	14,062	100.0	7156	42	1713	485	1412	1852	79	348	194	362	125	47	245	2	4989	354
PERCENT			50.9	.3	12.2	3.4	10.0	13.2	.6	2.5	1.4	2.6	.9	.3	1.7		35.5	2.5
CAUCASIAN	7,674	54.6	6005	14	366	137	403	395	21	126	29	45	24	15	93	1	1669	217
HAWAIIAN	68	.5	18	7	29		4	3		2			4		1		61	897
PART HAWN	1,561	11.1	366	6	690	37	163	182	13	27	13	5	37	1	21		871	557
CHINESE	475	3.4	69	1	37	190	21	129	1	15	2		2	5	3		285	600
FILIPINO	1,159	8.2	168	5	194	20	611	113	6	10	5	1	17	2	7		548	472
JAPANESE	1,581	11.2	214	2	145	81	97	934	2	85	5	2	5	1	8		647	409
PUERTO RCN	116	.8	28	1	29	1	18	8	16	2	3	4	3	1	2		100	862
KOREAN	151	1.1	24		10	2	7	30	1	74			1		2		77	509
SAMOAN	199	1.4	20		46	1	4	3	3		115		2		5		84	422
NEGRO	597	4.2	119	1	56	8	49	13	12	2	15	302	4		16		295	494
PORTUGUESE	132	.9	26		42	3	14	17	2	4		2	21		1		111	840
VIETNAMESE	26	.2			1	2		2						21			5	192
OTHER	321	2.3	98	5	68	3	21	23	2	1	7	1	5	1	86		235	732
UNKNOWN	2		1													1	1	500
OUT MARRIAGES	4,989	35.5	1151	35	1023	295	801	918	63	274	79	60	104	26	159	1		
RATE/1000	354		160	833	597	608	567	495	797	787	407	165	832	553	648	500		

TABLE 62
DIVORCES AND ANNULMENTS BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1983

COUNTY OF OCCURRENCE		YEAR: NUMBER	YEAR: RATE*	MONTH OF OCCURRENCE: JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
STATE OF HAWAII	NUMBER	4,583	4.5	379	355	415	325	404	444	294	484	353	356	308	466
	PERCENT	100.0		8.3	7.7	9.1	7.1	8.8	9.7	6.4	10.6	7.7	7.8	6.7	10.2
HAWAII		528	5.1	43	29	46	27	45	57	43	58	51	40	44	45
HONOLULU		3,488	4.4	277	288	318	245	321	343	211	375	254	262	228	366
KAUAI		180	4.1	14	18	19	10	15	15	16	9	19	21	7	17
MAUI		387	4.9	45	23	32	43	23	29	24	42	29	33	29	38
UNKNOWN															

*RATE PER 1,000 RESIDENT POPULATION

TABLE 63
DIVORCES AND ANNULMENTS BY NUMBER OF CHILDREN REPORTED UNDER 18 YEARS
STATE OF HAWAII, 1983

TYPE OF DECREE		TOTAL: NUMBER	TOTAL: PERCENT	NUMBER OF CHILDREN REPORTED UNDER 18 YEARS OF AGE: NONE	1	2	3	4	5	6	7	8	9	> 9	UNKNOWN
TOTAL	NUMBER	4,583	100.0	2092	1104	890	335	113	26	9	1	2			11
	PERCENT	100.0		45.6	24.1	19.4	7.3	2.5	.6	.2					.2
DIVORCES		4,573	99.8	2085	1102	889	335	113	26	9	1	2			11
ANNULMENTS		10	.2	7	2	1									
UNKNOWN															

TABLE 64
DIVORCES AND ANNULMENTS BY RACE AND AGE OF HUSBAND
STATE OF HAWAII, 1983

RACE OF HUSBAND		ALL AGES		AGE OF HUSBAND														
		NUMBER	PERCENT	UNDER 18	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & OVER	UNKNOWN
ALL RACES	NUMBER	4,583	100.0		12	489	919	997	838	516	279	182	136	78	43	25	19	50
	PERCENT	100.0			.3	10.7	20.1	21.8	18.3	11.3	6.1	4.0	3.0	1.7	.9	.5	.4	1.1
CAUCASIAN		2,154	47.0		5	265	409	457	408	239	129	81	55	40	25	11	6	24
HAWAIIAN		40	.9			4	4	10	3	9	5	2	1					2
PART HAWAIIAN		556	12.1		1	62	133	117	98	69	35	21	12	3	2		1	2
CHINESE		138	3.0			6	8	35	38	23	9	4	9	4	2			
FILIPINO		486	10.6		3	47	111	102	74	45	29	16	23	11	3	6	8	8
JAPANESE		595	13.0		2	26	101	146	123	81	38	35	20	8	5	7	3	
PUERTO RICAN		63	1.4		1	8	14	12	12	5	4	2	1	1	3			
KOREAN		141	3.1			6	22	35	26	18	10	7	8	3	2		1	3
SAMOAN		35	.8			6	9	10	4	3	1	1						1
NEGRO		195	4.3			46	76	31	16	7	7	4	1	2		1		4
PORTUGUESE		79	1.7			2	13	19	20	5	7	4	4	4	1			
VIETNAMESE		6	.1				2	1	1	1								1
OTHER RACES		92	2.0			11	17	21	15	11	5	5	2	2				3
UNKNOWN		3	.1					1										2

TABLE 65
DIVORCES AND ANNULMENTS BY RACE AND AGE OF WIFE
STATE OF HAWAII, 1983

RACE OF WIFE		ALL AGES		AGE OF WIFE														
		NUMBER	PERCENT	UNDER 16	16-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & OVER	UNKNOWN
ALL RACES	NUMBER	4,583	100.0	6	38	736	1113	1056	687	403	226	129	76	46	14	9	3	41
	PERCENT	100.0		.1	.8	16.1	24.3	23.0	15.0	8.8	4.9	2.8	1.7	1.0	.3	.2	.1	.9
CAUCASIAN		2,009	43.8	2	21	350	482	447	306	185	91	47	32	18	9	2	1	16
HAWAIIAN		36	.8			8	5	7	5	4	2	2		2				1
PART HAWAIIAN		564	12.3	2	4	125	145	115	72	43	32	9	3	8		1		5
CHINESE		167	3.6		1	18	30	41	42	18	9	4	3	1				
FILIPINO		498	10.9	1	3	87	143	106	56	41	21	13	11	3		1		12
JAPANESE		682	14.9	1	2	52	145	194	111	62	43	35	18	12	3	4		
PUERTO RICAN		42	.9		2	10	6	7	4	7	3	1		1			1	
KOREAN		249	5.4		1	16	68	72	43	22	10	8	5		1	1		2
SAMOAN		33	.7			5	8	8	7	3	2							
NEGRO		112	2.4		2	41	37	11	11	2	3	3	1					1
PORTUGUESE		67	1.5			11	14	13	7	5	6	5	3	1	1		1	
VIETNAMESE		27	.6			1	3	11	8	2	1	1						
OTHER RACES		97	2.1		2	12	27	24	15	9	3	1						4
UNKNOWN																		

TABLE 66
DIVORCES AND ANNULMENTS BY RACE OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1983

RACE OF HUSBAND		ALL RACES		RACE OF WIFE													
		NUMBER	PERCENT	CAUCA-SIAN	HAWN	PART HAWN	CHI-NESE	FILI-PINO	JAPA-NESE	PUERTO RICAN	KO-REAN	SA-MOAN	NEGRO	PORTU GUESE	VIETNA -MESE	OTHER RACES	UN-KNOWN
ALL RACES	NUMBER	4,583	100.0	2009	36	564	167	498	682	42	249	33	112	67	27	97	
	PERCENT	100.0		43.8	.8	12.3	3.6	10.9	14.9	.9	5.4	.7	2.4	1.5	.6	2.1	
CAUCASIAN		2,154	47.0	1563	15	113	51	103	130	13	82	9	11	9	17	38	
HAWAIIAN		40	.9	9	5	11	3	3	1		3	1	1	3			
PART HAWAIIAN		556	12.1	137	5	231	14	63	65	2	6	2	1	22		8	
CHINESE		138	3.0	24		12	51	5	36		9			1			
FILIPINO		486	10.6	78	2	71	8	267	34	3	4	3	1	7	1	7	
JAPANESE		595	13.0	82	3	46	27	22	368	1	33	2	1	3	1	6	
PUERTO RICAN		63	1.4	9	1	17		9	4	17	1		2	1		2	
KOREAN		141	3.1	11		4	5	1	18		99	1			1	1	
SAMOAN		35	.8	10	1	9		2	2			10				1	
NEGRO		195	4.3	45	2	16	2	13	4	1	8	1	94		1	8	
PORTUGUESE		79	1.7	12		17	4	9	13	4	1	1		18			
VIETNAMESE		6	.1				2								4		
OTHER RACES		92	2.0	29	2	17		1	6	1	1	3	1	3	2	26	
UNKNOWN		3	.1						1		2						

TABLE 67
DIVORCES AND ANNULMENTS BY LEGAL GROUNDS AND DURATION OF MARRIAGE
STATE OF HAWAII, 1983

LEGAL GROUNDS		TOTAL		DURATION OF MARRIAGE IN YEARS													
		NUMBER	PERCENT	UNDER 1	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & OVER	UN-KNOWN
DIVORCES & ANNULMENTS	NUMBER	4,583	100.0	177	407	493	475	379	1258	757	360	215	59		1	1	1
	PERCENT	100.0		3.9	8.9	10.8	10.4	8.3	27.4	16.5	7.9	4.7	1.3				
ABSOLUTE DIVORCES *		4,573	99.8	175	405	491	475	376	1257	757	360	215	59		1	1	1
MARR.IRRETR.BROKEN		4,537	99.0	174	405	491	473	375	1245	746	356	211	59		1		1
SEPARATION		36	.8	1			2	1	12	11	4	4				1	
GRIEV.MENTAL SUFF.																	
OTHER																	
UNKNOWN																	
ANNULMENTS		10	.2	2	2	2		3	1								
MINOR																	
UNDIV.SPOUSE ALIVE		5	.1	2	1			2									
DID NOT COHABIT																	
FAILURE TO PROVIDE																	
PHYS. INCOMPATIBLE		1			1												
FRAUD		1							1								
OTHER		3	.1			2		1									
UNKNOWN																	

* INCLUDES TYPE OF DECREE UNSPECIFIED.

TABLE 68
DIVORCES AND ANNULMENTS BY EDUCATION OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1983

EDUCATION OF HUSBAND YEARS OF SCHOOL		TOTAL		EDUCATION OF WIFE - YEARS IN SCHOOL											
				GRADE SCHOOL								COLLEGE			UN-
		NUMBER	PERCENT	NONE	1-4	5-6	7-8	9	10	11	12	1-3	4	5+	KNOWN
TOTAL	NUMBER	4,583	100.0	5	27	63	75	104	159	184	2094	1105	440	227	130
	PERCENT	100.0		.1	.6	1.4	1.6	2.3	3.5	4.0	45.7	24.1	9.6	5.0	2.2
NONE		6	.1		1						3				2
GRADE SCHOOL: 1 - 4		26	.6	1	8	5	1		1	1	3	1	1		4
5 - 6		39	.9		3	7	4	1		5	9	1	2		7
7 - 8		74	1.6			4	11	1	7	5	26	13	1		6
9		73	1.6	1		1	6	4	4	8	39	6	1		3
10		156	3.4			2	3	6	19	16	79	24	2		5
11		155	3.4				5	8	13	22	82	21	2		2
12		2,040	44.5	3	9	23	30	59	73	101	1221	366	90	21	44
COLLEGE: 1 - 3		974	21.3		3	10	7	8	26	11	350	399	104	40	16
4		557	12.2		1		4	3	9	3	149	161	164	55	8
5+		333	7.3								70	84	68	111	
UNKNOWN		150	3.3		2	11	4	14	7	12	63	29	5		3

TABLE 69
DIVORCES AND ANNULMENTS BY RESIDENCE OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1983

RESIDENCE OF HUSBAND	RESIDENCE OF WIFE														
			STATE OF HAWAII												
			COUNTY OF HAWAII			COUNTY OF HONOLULU			COUNTY OF KAUAI	COUNTY OF MAUI					NON-RESI-
	TOTAL RECORDED	TOTAL	TOTAL	HILO	BAL.	TOTAL	HON.	BAL.		TOTAL	MAUI	LANAI	MOLOKAI	UN-KNOWN	DENT
TOTAL RECORDED	4,583	4,040	456	183	263	3,037	1,543	1,494	160	352	336	9	7	25	543
STATE OF HAWAII	4,026	3,486	415	173	242	2,593	1,334	1,259	143	311	296	9	6	24	540
COUNTY OF HAWAII	466	422	376	158	218	37	17	20	3	3	2	1		5	44
CITY OF HILO	171	161	147	129	18	11	5	6		1	1			2	10
BALANCE OF COUNTY	295	261	229	29	200	26	12	14	3	2	1	1		1	34
COUNTY OF HONOLULU	3,301	2,558	25	11	14	2,484	1,274	1,210	7	26	24	2		16	443
CITY OF HONOLULU	1,448	1,267	13	6	7	1,219	925	294	4	19	17	2		12	181
BALANCE OF COUNTY	1,553	1,291	12	5	7	1,265	349	916	3	7	7			4	262
COUNTY OF KAUAI	168	150	2		2	11	5	6	132	2	1	1		3	18
COUNTY OF MAUI	340	305	6	2	4	28	14	14		269	258	5	6	4	35
ISLAND OF MAUI	323	291	6	2	4	26	13	13		258	255	2	1	1	32
ISLAND OF LANAI	6	4								3		3		1	2
ISLAND OF MOLOKAI	11	10				2	1	1		8	3		5		1
UNKNOWN	51	51	6	2	4	33	24	9	1	11	11				
NONRESIDENT	557	554	51	10	41	444	209	235	17	41	40		1	1	3

TABLE 70
DIVORCES AND ANNULMENTS BY AGE OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1983

AGE OF HUSBAND		ALL AGES		AGE OF WIFE														
		NUMBER	PERCENT	UNDER 18	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & OVER	UNKNOWN
ALL AGES	NUMBER	4,583	100.0	6	38	736	1113	1056	687	403	226	129	76	46	14	9	3	41
	PERCENT	100.0		.1	.8	16.1	24.3	23.0	15.0	8.8	4.9	2.8	1.7	1.0	.3	.2	.1	.9
UNDER 18																		
18 - 19		12	.3	2	2	6	1	1										
20 - 24		489	10.7	3	29	351	73	20	4	3								6
25 - 29		919	20.1	1	6	257	500	114	26	5	3							7
30 - 34		997	21.8			68	336	474	95	12	4	1	1					6
35 - 39		838	18.3			28	136	299	299	51	18	2	3					2
40 - 44		516	11.3			13	30	87	174	169	26	9	4	2				2
45 - 49		279	6.1			1	11	27	51	85	81	15	5	1				2
50 - 54		182	4.0			1	4	15	16	35	53	38	14	5				1
55 - 59		136	3.0			2	5	3	7	20	27	32	30	7	1			2
60 - 64		78	1.7		1		2	2	8	8	10	15	10	17	1			4
65 - 69		43	.9					2	1	6	1	7	4	9	8	2	1	2
70 - 74		25	.5				2			2	2	4	3	4	2	4	1	1
75 & OVER		19	.4				3	1		3		1	1	1	2	3	1	3
UNKNOWN		50	1.1			9	10	11	6	4	1	5	1					3

HAWAII TUMOR REGISTRY

The total number of resident cancer cases reported in Hawaii in 1982 (the most recent year of complete registration) was 2,852, a 0.9% increase over the number of cases (2,827) reported in 1981. The additional 25 cases reported in 1982 were mostly male (2.5% increase). There was little change in the number (1,359) of female cases registered in 1982.

The three most common cancers among resident males in 1982 were of the lung, prostate, and colon. (Stomach cancer continues to decrease among males; only 6% of the total male cancers were seen in this site.) Among resident females the three most common cancer sites in 1982 were breast, lung, and colon.

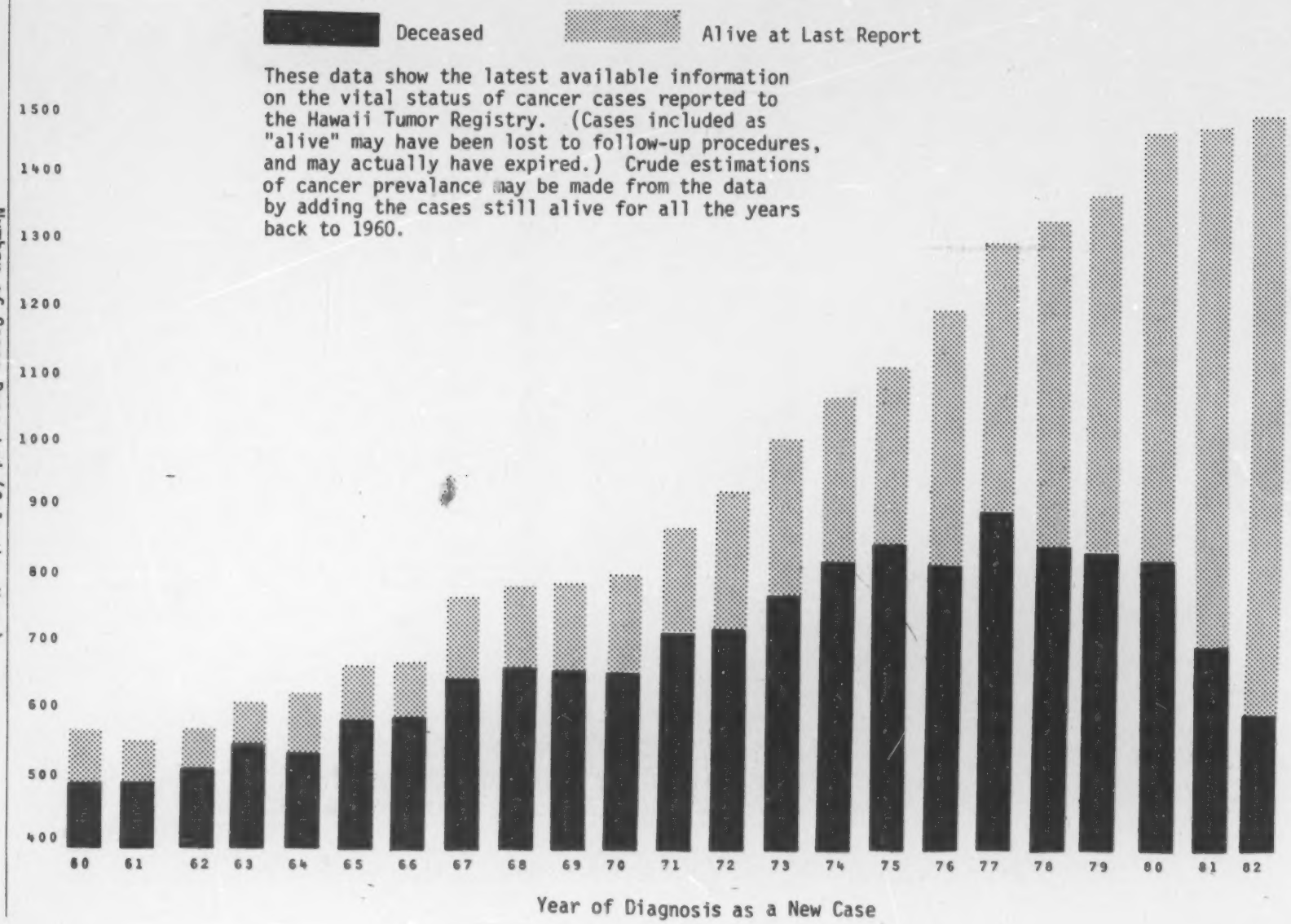
In 1982, cancer of the lung was the most common malignant disease in Caucasian, Chinese, and Hawaiian or part-Hawaiian males, while cancer of the colon was most common in Filipino and Japanese males. Cancer of the breast remains the most common female malignant disease among all major races in the State.

The median age-at-diagnosis for resident males in 1982 was 66.8 years. The median age-at-diagnosis for resident females in 1982 was 61.3 years.

Of the 1,493 male resident cases registered in 1982, 894 (59.9%) were alive at last report.

Of the 1,359 female resident cases registered in 1982, 1,014 (74.6%) were alive at last report.

VITAL STATUS OF *MALE* RESIDENT CASES, 1960-1982, ALL SITES



VITAL STATUS OF *FEMALE* RESIDENT CASES, 1960-1982, ALL SITES

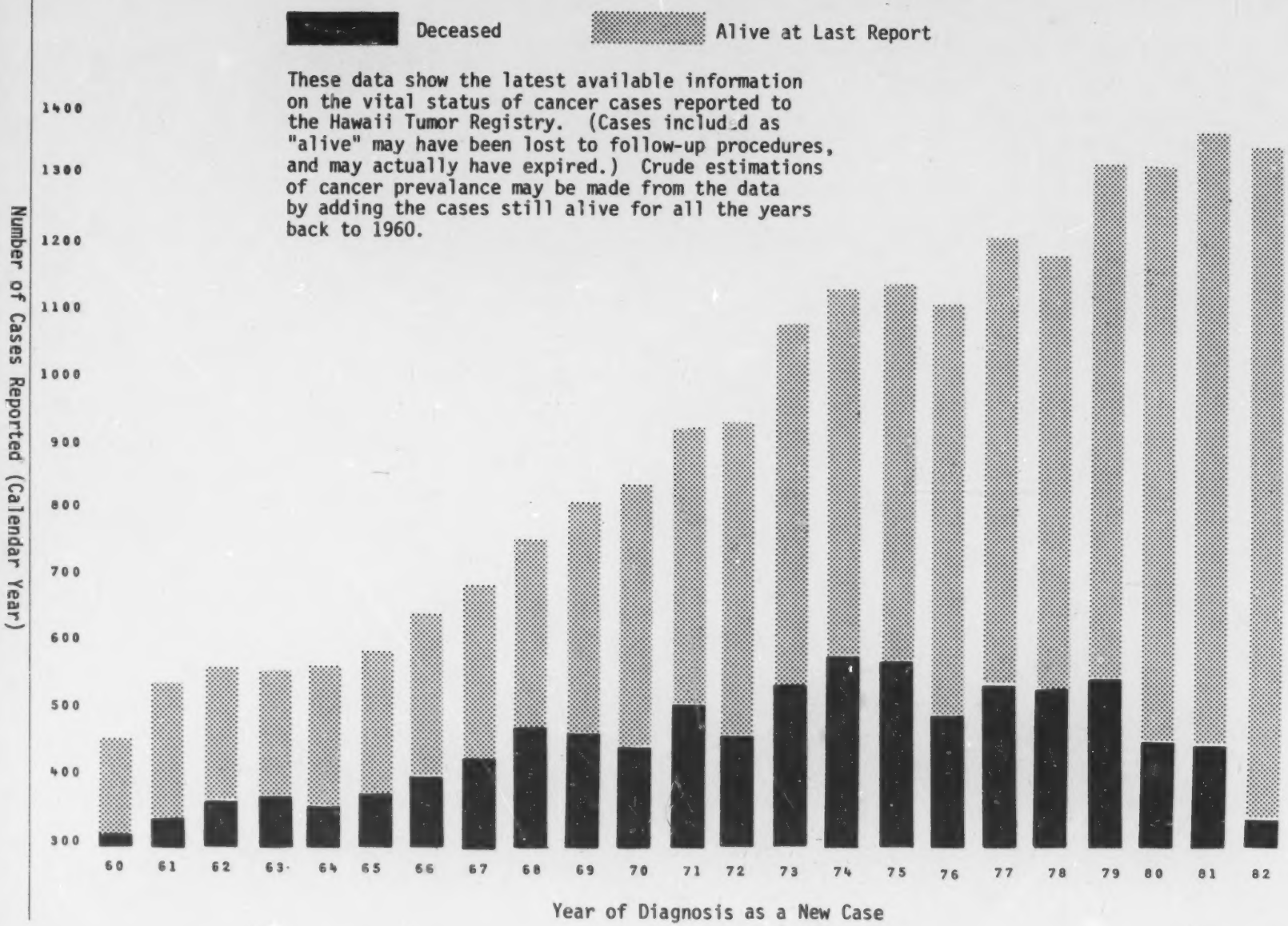


TABLE 1

MOST COMMON CANCERS REPORTED BY SITE AND RACE
MALE RESIDENTS
STATE OF HAWAII, 1982

SITE	Total All Races	RACE					
		Caucasian	Chinese	Filipino	Hawaiian	Japanese	Other
Total All Sites	1,493	500	110	168	172	461	82
Bladder	64	23	4	3	5	23	6
Colon	193	47	12	32	13	80	9
Leukemia	53	15	3	9	8	16	2
Lung	282	106	23	22	45	73	13
Melanoma	50	42	-	4	1	2	1
Liver	37	6	4	9	2	10	6
Pancreas	44	12	4	5	7	13	3
Prostate	216	81	21	19	25	60	10
Rectum	84	18	7	14	5	36	4
Stomach	91	13	9	8	10	43	8
Other	379	137	23	43	51	105	20

TABLE 2

MOST COMMON CANCERS REPORTED BY SITE AND RACE
FEMALE RESIDENTS
STATE OF HAWAII, 1982

SITE	Total All Races	RACE					
		Caucasian	Chinese	Filipina	Hawaiian	Japanese	Other
Total All Sites	1,359	454	86	94	211	399	115
Breast	368	136	23	18	53	114	24
Cervix	79	23	3	7	11	11	24
Uterus	99	35	8	5	18	25	8
Colon	134	38	10	7	10	62	7
Lung	137	50	9	11	39	21	7
Ovary	46	14	1	5	10	12	4
Rectum	50	16	1	1	3	25	4
Stomach	60	9	3	3	6	35	4
Thyroid	49	9	2	17	11	7	3
Other	337	124	26	20	50	87	30

TABLE 3

HAWAII TUMOR REGISTRATIONS
RACE AND AGE
MALE
STATE OF HAWAII, 1982

AGE	Total All Races	RACE					
		Caucasian	Chinese	Filipino	Hawaiian	Japanese	Other
Total All Ages	1,493	500	110	168	172	461	82
0 - 1 Years	4	-	-	-	2	2	-
1 - 4 Years	7	1	-	1	2	1	2
5 - 14 Years	6	1	-	1	2	1	1
15 - 24 Years	21	9	-	2	4	3	3
25 - 34 Years	47	21	5	5	7	6	3
35 - 44 Years	64	21	2	8	10	16	7
45 - 54 Years	142	51	7	13	21	33	17
55 - 64 Years	366	131	23	27	43	120	22
65 - 74 Years	496	171	36	56	62	154	17
75 + Years	338	93	37	55	19	125	9
Unknown	2	1	-	-	-	-	1

TABLE 4

HAWAII TUMOR REGISTRATIONS
RACE AND AGE
FEMALE
STATE OF HAWAII, 1982

AGE	Total All Races	RACE					
		Caucasian	Chinese	Filipina	Hawaiian	Japanese	Other
Total All Ages	1,359	454	86	94	211	399	115
0 - 1 Years	4	-	-	-	1	-	3
1 - 4 Years	3	1	-	-	2	-	-
5 - 14 Years	5	2	-	-	2	-	1
15 - 24 Years	22	7	3	1	5	2	4
25 - 34 Years	91	32	4	12	11	18	14
35 - 44 Years	138	44	6	14	20	35	19
45 - 54 Years	202	59	10	22	38	57	16
55 - 64 Years	342	105	22	19	59	113	24
65 - 74 Years	309	116	21	15	49	92	16
75 + Years	239	88	20	11	24	82	14
Unknown	4	-	-	-	-	-	4

TABLE 5

HAWAII TUMOR REGISTRATION, RECENT YEARS

VITAL STATUS

MALE

STATE OF HAWAII

VITAL STATUS	YEAR OF DIAGNOSIS			
	1979	1980	1981	1982
Alive, no cancer reported	350	401	475	579
Alive, cancer present	91	121	166	260
Alive, cancer status unknown	100	112	122	55
Expired, no cancer present	70	45	38	29
Expired, cancer present	755	773	664	560
Expired, cancer status unknown	10	11	5	10
TOTAL	1,376	1,463	1,470	1,493

TABLE 6

HAWAII TUMOR REGISTRATIONS, RECENT YEARS

VITAL STATUS

FEMALE

VITAL STATUS	YEAR OF DIAGNOSIS			
	1979	1980	1981	1982
Alive, no cancer reported	549	665	672	790
Alive, cancer present	61	68	106	172
Alive, cancer status unknown	166	137	150	52
Expired, no cancer present	39	21	16	7
Expired, cancer present	502	435	427	335
Expired, cancer status unknown	12	2	7	3
TOTAL	1,329	1,328	1,378	1,359

TABLE 7

TUMOR STATUS IN LIVING PATIENTS, RECENT YEARS

MALE

STATE OF HAWAII

TUMOR STATUS	YEAR OF DIAGNOSIS			
	1979	1980	1981	1982
No evidence of disease	350	401	475	579
Residual disease	26	45	55	113
Recurrent disease	12	14	25	13
Metastatic disease	44	56	75	129
Tumor status unknown	100	112	122	55
Other cancer present	9	6	11	5
TOTAL	541	634	763	894

TABLE 8

TUMOR STATUS IN LIVING PATIENTS, RECENT YEARS

FEMALE

TUMOR STATUS	YEAR OF DIAGNOSIS			
	1979	1980	1981	1982
No evidence of disease	549	665	672	790
Residual disease	10	19	27	63
Recurrent disease	8	6	13	5
Metastatic disease	36	40	63	99
Tumor status unknown	166	137	150	52
Other cancer present	6	3	3	5
Cancer present, origin unknown	1	-	-	-
TOTAL	776	870	928	1,014

HAWAII HEALTH SURVEILLANCE PROGRAM
1983

The Hawaii Health Surveillance Program administers a continuous statewide household survey of health and socio-demographic conditions of the state. The survey is conducted as a means of providing Health Department programs and other state and private agencies with statistics for planning and evaluation of health services, programs, and problems. Furthermore, the survey provides demographic information for observing population changes during the intercensal decade.

The households interviewed in the Health Survey are selected systematically from a target population limited to the non-institutional population. During the 1983 period, 6,437 households were selected and 15,250 persons were interviewed. Persons excluded from our sample are those living in military barracks, nursing homes or rest homes, prisons, dormitories, the Island of Niihau, and Kalaupapa Settlement. Because of the exclusion of this group, the health characteristics of the non-institutionalized population can be affected since institutionalization is often contingent upon the health of the person.

The tables which follow are shown in five groups. The first group, Tables 1-14, show the prevalence and number per 1,000 persons per year of selected chronic conditions by geographic area, sex, age, and ethnicity. A comparison of the number of chronic conditions per 1,000 persons per year from 1978 through 1983 are shown in Table 15. The geographic areas used for Oahu include census tracts 1-45 for East Honolulu, 46-66 for West Honolulu, 67-95 and 99-100 for Central Oahu, 96-98 for Waianae, and 101-113 for Windward.

The second group of tables, Tables 16-18, show the activity limitation status for persons with chronic conditions by age and sex and family income. The limitation of activity question was asked only of persons who reported having at least one chronic condition in the 12 months prior to the month of interview. These people were asked to rate themselves in terms of their health according to a scale of 1 to 4. The scale was represented as follows: 1=Not Able To Work At All; 2=Able To Work But Limited In Type Or Amount Of Work; 3=Able To Work But Limited In Type Or Amount of Other Activity; 4=Not Limited in Any Way.

The incidence and number per 100 persons per year of acute conditions is exhibited in Tables 19-28, by geographic areas, sex, age, and ethnicity. Since the frequency of acute conditions are recorded on a monthly basis, the acute conditions were multiplied by twelve (12) in order that a yearly morbidity rate could be calculated. A comparison of the number of acute conditions per 100 persons per year from 1978 through 1983 are shown in Table 29.

Tables 30-36 depict the different types of disability days for persons who have acute and/or chronic conditions by geographic areas and age. Restricted activity day is a day during which a person had to cut down on his usual activity for all or most of the day. A bed day is defined as a day during which a person reported staying in bed for all or most of a day. The work day lost or school day lost is a day during which a person is normally at work or school, but due to an illness or injury, could not work or go to school for all or most of the day. Total restricted activity days include bed days, work days, and school days lost.

TABLE 1
PREVALENCE OF SELECTED CHRONIC CONDITIONS BY GEOGRAPHIC AREA, 1983*

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	22,121	16,285	6,900	1,507	4,003	898	2,977	1,328	1,723	2,784
Impairment of back or spine	53,193	39,278	15,385	4,975	9,334	1,131	8,453	3,000	5,476	5,440
Hypertension without heart involvement	72,377	51,334	18,520	7,498	15,787	1,957	7,572	4,622	7,021	9,400
Arthritis/Rheumatism	30,313	23,386	9,879	3,751	5,579	324	3,854	1,839	2,726	2,361
Hearing impairment	30,192	22,364	8,938	3,173	5,147	213	4,893	1,727	2,833	3,267
Asthma with or without hayfever	33,613	24,490	6,956	2,963	9,328	1,256	3,988	2,608	2,952	3,563
Diabetes	20,425	14,298	4,457	2,557	3,783	618	2,883	1,265	2,339	2,523
Mental and nervous condition	11,262	8,686	3,312	751	1,966	-	2,656	668	868	1,040
Visual impairment	11,373	8,114	3,781	1,153	1,640	55	1,485	933	986	1,340
Malignant neoplasms	7,816	6,492	2,502	746	1,994	-	1,251	120	664	539
Chronic and allergic skin conditions	32,869	26,624	9,909	3,492	8,980	-	4,243	1,814	2,654	1,778
Chronic sinusitis	24,042	18,302	6,126	1,750	7,383	72	2,971	776	2,564	2,401
Hayfever without asthma	51,481	38,976	13,879	3,769	13,099	92	8,138	2,803	4,663	5,039
Stomach ulcer	6,210	4,112	1,868	876	637	201	529	268	743	1,088
Bronchitis/Emphysema	11,227	7,707	2,549	819	1,726	-	2,613	1,272	1,012	1,236
Benign and unspecified neoplasms	4,533	3,447	715	326	1,509	-	897	316	486	284
Hemorrhoids	11,447	8,626	2,837	258	3,510	-	2,022	866	839	1,116
Thyroid/Goiter	2,621	2,133	585	172	777	-	599	118	243	127
Varicose veins	8,413	6,199	1,794	760	1,728	-	1,917	841	721	654
Gout	8,553	5,372	1,822	1,027	1,394	136	993	590	1,288	1,304

*Numbers may not add up due to rounding.

TABLE 2
NUMBER OF SELECTED CHRONIC CONDITIONS PER 1,000 PERSONS BY GEOGRAPHIC AREA, 1983

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	22.4	21.4	29.6	18.1	13.8	27.4	24.6	30.8	21.7	27.2
Impairment of back or spine	54.0	51.6	66.0	59.8	32.1	34.5	69.9	69.5	69.0	53.1
Hypertension without heart involvement	73.4	67.5	79.5	90.2	54.3	59.7	62.6	107.0	88.5	91.8
Arthritis/Rheumatism	30.8	30.7	42.4	45.1	19.2	9.9	31.9	42.6	34.4	23.1
Hearing impairment	30.6	29.4	38.4	38.2	17.7	6.5	40.5	40.0	35.7	31.9
Asthma with or without hayfever	34.1	32.2	29.9	35.6	32.1	38.3	33.0	60.4	37.2	34.8
Diabetes	20.7	18.8	19.1	30.8	13.0	18.9	23.8	29.3	29.5	24.6
Mental and nervous condition	11.4	11.4	14.2	9.0	6.8	-	22.0	15.5	10.9	10.2
Visual impairment	11.5	10.7	16.2	13.9	5.6	1.7	12.3	21.6	12.4	13.1
Malignant neoplasms	7.9	8.5	10.7	9.0	6.9	-	10.3	2.8	8.4	5.3
Chronic and allergic skin conditions	33.3	35.0	42.5	42.0	30.9	-	35.1	42.0	33.5	17.4
Chronic sinusitis	24.4	24.1	26.3	21.1	25.4	2.2	24.6	18.0	32.3	23.5
Hayfever without asthma	52.2	51.2	59.6	45.3	45.0	2.8	67.3	64.9	58.8	49.2
Stomach ulcer	6.3	5.4	8.0	10.5	2.2	6.1	4.4	6.2	9.4	10.6
Bronchitis/Emphysema	11.4	10.1	10.9	9.8	5.9	-	21.6	29.5	12.8	12.1
Benign and unspecified neoplasms	4.6	4.5	3.1	3.9	5.2	-	7.4	7.3	6.1	2.8
Hemorrhoids	11.6	11.3	12.2	3.1	12.1	-	16.7	20.0	10.6	10.9
Thyroid/Goiter	2.7	2.8	2.5	2.1	2.7	-	5.0	2.7	3.1	1.2
Varicose veins	8.5	8.1	7.7	9.1	5.9	-	15.8	19.5	9.1	6.4
Gout	8.7	7.1	7.8	12.3	4.8	4.1	8.2	13.7	16.2	12.7

TABLE 3
PREVALENCE OF SELECTED CHRONIC CONDITIONS FOR MALES BY GEOGRAPHIC AREA, 1983*

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	12,763	9,312	4,399	896	2,407	212	1,398	701	1,036	1,715
Impairment of back or spine	30,166	22,179	8,184	2,722	6,322	617	4,333	1,656	2,865	3,457
Hypertension without heart involvement	34,823	25,047	8,582	3,024	8,041	1,144	4,256	2,182	3,386	4,208
Arthritis/Rheumatism	11,270	8,344	3,339	1,115	2,298	111	1,482	782	1,118	1,025
Hearing impairment	19,845	14,428	5,482	1,615	4,093	-	3,238	1,274	2,007	2,136
Asthma with or without hayfever	14,759	10,316	3,421	930	3,516	288	2,162	1,028	1,487	1,928
Diabetes	10,289	7,547	2,311	1,290	2,377	239	1,330	564	1,069	1,109
Mental and nervous condition	4,615	3,636	1,092	343	968	-	1,233	300	376	302
Visual impairment	5,440	3,943	1,907	398	892	-	746	548	466	484
Malignant neoplasms	3,984	3,431	1,126	590	1,044	-	672	58	285	210
Chronic and allergic skin conditions	14,806	11,834	5,057	1,428	3,235	-	2,115	798	1,377	797
Chronic sinusitis	11,021	8,417	3,173	703	3,282	-	1,259	380	1,021	1,202
Hayfever without asthma	22,399	17,155	6,063	1,112	6,283	-	3,697	1,208	1,804	2,232
Stomach ulcer	3,408	2,438	1,024	536	392	201	286	146	302	522
Bronchitis/Emphysema	5,067	3,302	1,211	196	790	-	1,105	619	495	652
Benign and unspecified neoplasms	1,813	1,497	311	91	928	-	168	90	69	157
Hemorrhoids	5,151	4,231	1,612	184	1,538	-	896	345	321	255
Thyroid/Goiter	189	101	-	-	101	-	-	40	-	47
Varicose veins	1,348	782	92	254	252	-	184	111	132	323
Gout	6,603	4,339	1,530	750	1,167	81	811	451	978	834

*Numbers may not add up due to rounding.

TABLE 4
NUMBER OF SELECTED CHRONIC CONDITIONS PER 1,000 MALES PER YEAR BY GEOGRAPHIC AREA, 1983

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	25.8	24.5	39.0	22.0	16.1	12.8	23.1	31.9	25.9	33.3
Impairment of back or spine	61.1	58.3	72.5	66.9	42.2	37.1	71.6	75.7	71.6	67.1
Hypertension without heart involvement	70.5	65.8	76.1	74.3	53.6	68.8	70.3	99.2	84.6	81.7
Arthritis/Rheumatism	22.8	21.9	29.6	27.4	15.3	6.7	24.5	35.6	27.9	19.9
Hearing impairment	40.2	37.9	48.6	39.7	27.3	-	53.5	57.9	50.2	41.5
Asthma with or without hayfever	29.9	27.1	30.3	22.9	23.5	17.3	35.7	46.7	37.2	37.5
Diabetes	20.8	19.8	20.5	31.7	15.9	14.4	22.0	25.7	26.7	21.5
Mental and nervous condition	9.3	9.6	9.7	8.4	6.5	-	20.4	13.7	9.4	5.9
Visual impairment	11.0	10.4	16.9	9.8	6.0	-	12.3	24.9	11.6	9.4
Malignant neoplasms	8.1	9.0	10.0	14.5	7.0	-	11.1	2.6	7.1	4.1
Chronic and allergic skin conditions	30.0	31.1	44.8	35.1	21.6	-	34.9	36.3	34.4	15.5
Chronic sinusitis	22.3	22.1	28.1	17.3	21.9	-	20.8	17.3	25.5	23.4
Hayfever without asthma	45.3	45.1	53.7	27.3	41.9	-	61.1	54.9	45.1	43.3
Stomach ulcer	6.9	6.4	9.1	13.2	2.6	12.1	4.7	6.6	7.6	10.1
Bronchitis/Emphysema	10.3	8.7	10.7	4.8	5.3	-	18.3	28.1	12.4	12.7
Benign and unspecified neoplasms	3.7	3.9	2.8	2.2	6.2	-	2.8	4.1	1.7	3.1
Hemorrhoids	10.4	11.1	14.3	4.5	10.3	-	14.8	15.7	8.0	5.0
Thyroid/Goiter	0.4	0.3	-	-	0.7	-	-	1.8	-	0.9
Varicose veins	2.7	2.1	0.8	6.2	1.7	-	3.0	5.1	3.3	6.3
Gout	13.4	11.4	13.6	18.4	7.8	4.9	13.4	20.5	24.4	16.2

TABLE 5
PREVALENCE OF SELECTED CHRONIC CONDITIONS FOR FEMALES BY GEOGRAPHIC AREA, 1983*

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	9,357	6,973	2,501	611	1,596	687	1,579	628	688	1,070
Impairment of back or spine	23,027	17,099	7,201	2,253	3,012	514	4,120	1,334	2,611	1,983
Hypertension without heart involvement	37,554	26,287	9,938	4,474	7,745	813	3,316	2,440	3,635	5,192
Arthritis/Rheumatism	19,043	15,042	6,540	2,636	3,282	213	2,371	1,057	1,608	1,336
Hearing impairment	10,347	7,936	3,456	1,559	1,054	213	1,655	453	826	1,131
Asthma with or without hayfever	18,854	14,174	3,535	2,032	5,812	969	1,826	1,580	1,465	1,635
Diabetes	10,135	6,752	2,146	1,267	1,406	380	1,553	700	1,270	1,414
Mental and nervous condition	6,647	5,050	2,220	408	999	-	1,423	368	492	738
Visual impairment	5,933	4,171	1,874	755	748	55	739	386	521	856
Malignant neoplasms	3,831	3,061	1,376	156	950	-	579	62	379	330
Chronic and allergic skin conditions	18,063	14,789	4,853	2,064	5,745	-	2,128	1,016	1,277	981
Chronic sinusitis	13,022	9,885	2,954	1,047	4,100	72	1,712	396	1,542	1,199
Hayfever without asthma	29,082	21,821	7,816	2,657	6,816	92	4,440	1,595	2,859	2,807
Stomach ulcer	2,802	1,674	845	340	246	-	243	122	441	566
Bronchitis/Emphysema	6,160	4,406	1,338	623	937	-	1,508	653	518	584
Benign and unspecified neoplasms	2,720	1,950	404	235	581	-	730	226	417	127
Hemorrhoids	6,296	4,395	1,224	73	1,972	-	1,126	521	519	861
Thyroid/Goiter	2,432	2,032	585	172	675	-	599	78	243	80
Varicose veins	7,065	5,417	1,701	506	1,476	-	1,733	729	589	330
Gout	1,950	1,032	292	277	227	55	182	139	310	469

*Numbers may not add up due to rounding.

TABLE 6
NUMBER OF SELECTED CHRONIC CONDITIONS PER 1,000 FEMALES PER YEAR BY GEOGRAPHIC AREA, 1983

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	19.0	18.3	20.8	14.4	11.3	42.4	26.1	29.6	17.5	21.0
Impairment of back or spine	46.8	45.0	59.9	53.1	21.4	31.8	68.2	63.0	66.4	39.0
Hypertension without heart involvement	76.4	69.1	82.7	105.4	54.9	50.2	54.9	115.1	92.5	102.0
Arthritis/Rheumatism	38.7	39.6	54.4	62.1	23.3	13.2	39.2	49.9	40.9	26.2
Hearing impairment	21.0	20.9	28.8	36.7	7.5	13.2	27.4	21.4	21.0	22.2
Asthma with or without hayfever	38.4	37.3	29.4	47.9	41.2	59.9	30.2	74.6	37.3	32.1
Diabetes	20.6	17.8	17.9	29.8	10.0	23.5	25.7	33.0	32.3	27.8
Mental and nervous condition	13.5	13.3	18.5	9.6	7.1	-	23.6	17.3	12.5	14.5
Visual impairment	12.1	11.0	15.6	17.8	5.3	3.4	12.2	18.2	13.2	16.8
Malignant neoplasms	7.8	8.1	11.5	3.7	6.7	-	9.6	2.9	9.6	6.5
Chronic and allergic skin conditions	36.7	38.9	40.4	48.6	40.7	-	35.2	47.9	32.5	19.3
Chronic sinusitis	26.5	26.0	24.6	24.7	29.1	4.5	28.3	18.7	39.2	23.5
Hayfever without asthma	59.2	57.4	65.0	62.6	48.3	5.7	73.4	75.3	72.8	55.1
Stomach ulcer	5.7	4.4	7.0	8.0	1.7	-	4.0	5.8	11.2	11.1
Bronchitis/Emphysema	12.5	11.6	11.1	14.7	6.6	-	25.0	30.8	13.2	11.4
Benign and unspecified neoplasms	5.5	5.1	3.4	5.5	4.1	-	12.1	10.7	10.6	2.5
Hemorrhoids	12.8	11.6	10.2	1.7	14.0	-	18.6	24.6	13.2	16.9
Thyroid/Goiter	4.9	5.3	4.9	4.1	4.8	-	9.9	3.7	6.2	1.6
Varicose veins	14.4	14.2	14.2	11.9	10.5	-	28.7	34.4	15.0	6.5
Gout	4.0	2.7	2.4	6.5	1.6	3.4	3.0	6.6	7.9	9.2

TABLE 7
PREVALENCE OF SELECTED CHRONIC CONDITIONS BY AGE, 1983*

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	22,121	1,792	3,523	8,124	8,682
Impairment of back or spine	53,193	1,503	26,765	19,045	5,880
Hypertension without heart involvement	72,377	197	12,064	35,215	24,900
Arthritis/Rheumatism	30,313	327	4,192	14,253	11,541
Hearing impairment	30,192	2,654	7,855	9,045	10,638
Asthma with or without hayfever	33,613	13,554	13,666	4,608	1,785
Diabetes	20,425	43	3,197	9,430	7,754
Mental and nervous condition	11,262	1,209	5,875	3,497	682
Visual impairment	11,373	588	2,168	2,716	5,901
Malignant neoplasms	7,816	76	721	2,958	4,061
Chronic and allergic skin conditions	32,869	7,485	15,749	6,065	3,571
Chronic sinusitis	24,042	1,934	15,701	4,819	1,588
Hayfever without asthma	51,481	10,735	29,374	8,471	2,901
Stomach ulcer	6,210	68	2,092	3,083	967
Bronchitis/Emphysema	11,227	2,478	4,252	2,584	1,913
Benign and unspecified neoplasms	4,533	292	2,577	1,189	476
Hemorrhoids	11,447	96	6,369	3,971	1,011
Thyroid/Goiter	2,621	-	965	1,305	351
Varicose Veins	8,413	-	3,540	2,976	1,897
Gout	8,553	-	1,342	4,246	2,965

*Numbers may not add up due to rounding.

TABLE 8
NUMBER OF CHRONIC CONDITIONS PER 1,000 PERSONS PER YEAR BY AGE, 1983

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	22.4	6.5	7.9	43.4	109.2
Impairment of back or spine	54.0	5.5	60.1	101.7	73.9
Hypertension without heart involvement	73.4	0.7	27.1	188.1	303.1
Arthritis/Rheumatism	30.8	1.2	9.4	76.1	145.1
Hearing impairment	30.6	9.7	17.6	48.3	133.8
Asthma with or without hayfever	34.1	49.5	30.7	24.6	22.4
Diabetes	20.7	0.2	7.2	50.4	97.5
Mental and nervous condition	11.4	4.4	13.2	18.7	8.6
Visual impairment	11.5	2.1	4.9	14.5	74.2
Malignant neoplasms	7.9	0.3	1.6	15.8	51.1
Chronic and allergic skin conditions	33.3	27.3	35.3	32.4	44.9
Chronic sinusitis	24.4	7.1	35.3	25.7	20.0
Hayfever without asthma	52.2	39.2	66.0	45.3	36.5
Stomach ulcer	6.3	0.3	4.7	16.5	12.2
Bronchitis/Emphysema	11.4	9.1	9.5	13.8	24.1
Benign and unspecified neoplasms	4.6	1.1	5.8	6.4	6.0
Hemorrhoids	11.6	0.4	14.3	21.2	12.7
Thyroid/Goiter	2.7	-	2.2	7.0	4.4
Varicose Veins	8.5	-	8.0	15.9	23.9
Gout	8.7	-	3.0	22.7	37.3

TABLE 9
PREVALENCE OF SELECTED CHRONIC CONDITIONS FOR MALES BY AGE, 1983*

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	12,763	919	1,767	4,825	5,253
Impairment of back or spine	30,166	411	14,888	11,898	2,968
Hypertension without heart involvement	34,823	169	6,034	17,800	10,819
Arthritis/Rheumatism	11,270	20	1,789	5,271	4,190
Hearing impairment	19,845	1,459	5,610	7,066	5,710
Asthma with or without hayfever	14,759	7,778	4,852	1,074	1,056
Diabetes	10,289	36	1,391	4,440	4,423
Mental and nervous condition	4,615	659	2,738	871	347
Visual impairment	5,440	251	1,698	870	2,622
Malignant neoplasms	3,984	-	228	1,242	2,514
Chronic and allergic skin conditions	14,806	3,493	6,274	2,826	2,212
Chronic sinusitis	11,021	1,171	7,046	2,281	523
Hayfever without asthma	22,399	6,423	11,557	3,165	1,253
Stomach ulcer	3,408	36	1,061	1,788	524
Bronchitis/Emphysema	5,067	1,139	1,893	946	1,090
Benign and unspecified neoplasms	1,813	255	1,033	376	149
Hemorrhoids	5,151	-	2,406	2,154	590
Thyroid/Goiter	189	-	-	149	39
Varicose Veins	1,348	-	279	638	432
Gout	6,603	-	879	3,418	2,306

*Numbers may not add up due to rounding.

TABLE 10
NUMBER OF CHRONIC CONDITIONS PER 1,000 MALES PER YEAR BY AGE, 1983

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	25.8	6.5	8.0	53.5	128.6
Impairment of back or spine	61.1	2.9	67.2	132.0	72.7
Hypertension without heart involvement	70.5	1.2	27.2	197.4	264.9
Arthritis/Rheumatism	22.8	0.1	8.1	58.5	102.6
Hearing impairment	40.2	10.3	25.3	78.4	139.8
Asthma with or without hayfever	29.9	55.0	21.9	11.9	25.9
Diabetes	20.8	0.3	6.3	49.3	108.3
Mental and nervous condition	9.3	4.7	12.4	9.7	8.5
Visual impairment	11.0	1.8	7.7	9.6	64.2
Malignant neoplasms	8.1	-	1.0	13.8	61.6
Chronic and allergic skin conditions	30.0	24.7	28.3	31.4	54.2
Chronic sinusitis	22.3	8.3	31.8	25.3	12.8
Hayfever without asthma	45.3	45.4	52.1	35.1	30.7
Stomach ulcer	6.9	0.3	4.8	19.8	12.8
Bronchitis/Emphysema	10.3	8.1	8.5	10.5	26.7
Benign and unspecified neoplasms	3.7	1.8	4.7	4.2	3.7
Hemorrhoids	10.4	-	10.9	23.9	14.5
Thyroid/Goiter	0.4	-	-	1.7	1.0
Varicose Veins	2.7	-	1.3	7.1	10.6
Gout	13.4	-	4.0	37.9	56.5

TABLE 11
PREVALENCE OF SELECTED CHRONIC CONDITIONS FOR FEMALES, 1983*

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	9,357	873	1,756	3,299	3,429
Impairment of back or spine	23,027	1,092	11,877	7,146	2,912
Hypertension without heart involvement	37,554	28	6,030	17,415	14,081
Arthritis/Rheumatism	19,043	307	2,403	8,982	7,351
Hearing impairment	10,347	1,195	2,246	1,979	4,928
Asthma with or without hayfever	18,854	5,776	8,815	3,534	729
Diabetes	10,135	7	1,806	4,990	3,332
Mental and nervous condition	6,647	550	3,136	2,626	336
Visual impairment	5,933	338	471	1,846	3,279
Malignant neoplasms	3,831	76	492	1,716	1,547
Chronic and allergic skin conditions	18,063	3,991	9,475	3,239	1,359
Chronic sinusitis	13,022	763	8,655	2,539	1,066
Hayfever without asthma	29,082	4,311	17,817	5,306	1,648
Stomach ulcer	2,802	33	1,032	1,295	444
Bronchitis/Emphysema	6,160	1,340	2,359	1,638	823
Benign and unspecified neoplasms	2,720	37	1,544	813	326
Hemorrhoids	6,296	96	3,963	1,817	421
Thyroid/Goiter	2,432	-	965	1,156	311
Varicose Veins	7,065	-	3,261	2,338	1,466
Gout	1,950	-	463	828	659

*Numbers may not add up due to rounding.

TABLE 12
NUMBER OF CHRONIC CONDITIONS PER 1,000 FEMALES PER YEAR BY AGE, 1983

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	19.0	6.6	7.9	34.0	88.6
Impairment of back or spine	46.8	8.2	53.1	73.7	75.3
Hypertension without heart involvement	76.4	0.2	27.0	179.5	364.0
Arthritis/Rheumatism	38.7	2.3	10.7	92.6	190.0
Hearing impairment	21.0	9.0	10.0	20.4	127.4
Asthma with or without hayfever	38.4	43.6	39.4	36.4	18.8
Diabetes	20.6	-	8.1	51.4	86.1
Mental and nervous condition	13.5	4.2	14.0	27.1	8.7
Visual impairment	12.1	2.6	2.1	19.0	84.8
Malignant neoplasms	7.8	0.6	2.2	17.7	40.0
Chronic and allergic skin conditions	36.7	30.2	42.4	33.4	35.1
Chronic sinusitis	26.5	5.8	38.7	26.2	27.5
Hayfever without asthma	59.2	32.6	79.7	54.7	42.6
Stomach ulcer	5.7	0.2	4.6	13.3	11.5
Bronchitis/Emphysema	12.5	10.1	10.6	16.9	21.3
Benign and unspecified neoplasms	5.5	0.3	6.9	8.4	8.4
Hemorrhoids	12.8	0.7	17.7	18.7	10.9
Thyroid/Goiter	4.9	-	4.3	11.9	8.0
Varicose Veins	14.4	-	14.6	24.1	37.9
Gout	4.0	-	2.1	8.5	17.0

TABLE 13
PREVALENCE OF SELECTED CHRONIC CONDITIONS BY ETHNICITY, 1983

Selected Chronic Condition	CAUCASIAN	JAPANESE	HAWAIIAN/ PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
Heart Condition	7,116	5,726	4,365	2,297	1,441	1,177
Impairment of back or spine	17,693	14,590	8,654	3,184	2,034	7,038
Hypertension without heart involvement	14,937	29,086	10,115	8,313	4,672	5,253
Arthritis/Rheumatism	11,186	8,009	3,293	3,251	2,300	2,275
Hearing impairment	11,226	9,862	3,515	1,455	1,142	2,993
Asthma with or without hayfever	7,420	5,748	11,291	2,242	1,404	5,510
Diabetes	3,986	7,934	2,868	2,308	1,168	2,162
Mental and nervous condition	4,020	2,256	2,171	412	510	1,893
Visual impairment	3,394	3,856	1,136	910	600	1,477
Malignant neoplasms	3,092	2,742	464	233	961	323
Chronic and allergic skin conditions	10,838	6,856	5,095	2,355	1,757	5,968
Chronic sinusitis	11,341	4,646	2,756	901	872	3,526
Hayfever without asthma	17,189	12,224	7,809	2,581	2,999	8,678
Stomach ulcer	2,069	1,326	692	982	289	853
Bronchitis/Emphysema	4,168	2,263	2,248	434	57	2,058
Benign and unspecified neoplasms	1,644	1,124	723	243	285	515
Hemorrhoids	3,845	3,367	1,219	603	205	2,208
Thyroid/Goiter	648	930	424	191	95	333
Varicose Veins	3,606	2,062	1,024	156	269	1,298
Gout	1,321	1,550	1,686	1,808	863	1,326

TABLE 14
NUMBER OF CHRONIC CONDITIONS PER 1,000 PERSONS PER YEAR
BY ETHNICITY, 1983

Selected Chronic Condition	CAUCASIAN	JAPANESE	HAWAIIAN/ PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
Heart Condition	29.4	25.1	22.2	20.6	30.8	7.3
Impairment of back or spine	73.2	63.9	44.0	28.5	43.5	43.9
Hypertension without heart involvement	61.8	127.4	51.4	74.5	99.8	32.8
Arthritis/Rheumatism	46.3	35.1	16.7	29.1	49.1	14.2
Hearing impairment	46.4	43.2	17.9	13.0	24.4	18.7
Asthma with or without hayfever	30.7	25.2	57.4	20.1	30.0	34.4
Diabetes	16.5	34.7	14.6	20.7	25.0	13.5
Mental and nervous condition	16.6	9.9	11.0	3.7	10.9	11.8
Visual impairment	14.0	16.9	5.8	8.2	12.8	9.2
Malignant neoplasms	12.8	12.0	2.4	2.1	20.5	2.0
Chronic and allergic skin conditions	44.8	30.0	25.9	21.1	37.6	37.2
Chronic sinusitis	46.9	20.3	14.0	8.1	18.6	22.0
Hayfever without asthma	71.1	53.5	39.7	23.1	64.1	54.1
Stomach ulcer	8.6	5.8	3.5	8.8	6.2	5.3
Bronchitis/Emphysema	17.2	9.9	11.4	3.9	1.2	12.8
Benign and unspecified neoplasms	6.8	4.9	3.7	2.2	6.1	3.2
Hemorrhoids	15.9	14.7	6.2	5.4	4.4	13.8
Thyroid/Goiter	2.7	4.1	2.2	1.7	2.0	2.1
Varicose Veins	14.9	9.0	5.2	1.4	5.7	8.1
Gout	5.5	6.8	8.6	16.2	18.4	8.3

TABLE 15
NUMBER OF CHRONIC CONDITIONS PER 1,000
PERSONS PER YEAR (1978-1983)

	1978	1979	1980	1981	1982	1983
Heart Condition	19.1	20.9	20.1	21.1	23.2	22.4
Impairment of back or spine	33.2	34.6	32.4	50.2	46.7	54.0
Hypertension without heart involvement	65.9	66.8	75.6	67.4	70.7	73.4
Arthritis/Rheumatism	26.5	26.2	27.8	26.7	30.7	30.8
Hearing impairment	26.8	26.1	26.2	32.1	31.5	30.6
Asthma with or without hayfever	38.4	36.5	29.8	30.1	37.1	34.1
Diabetes	22.4	22.1	23.0	18.9	19.4	20.7
Mental and nervous condition	12.8	9.6	9.4	13.3	17.7	11.4
Visual impairment	10.9	10.5	12.3	12.3	12.6	11.5
Malignant neoplasms	6.1	6.1	5.9	6.5	6.3	7.9
Chronic and allergic skin conditions	24.3	23.9	18.8	25.8	30.1	33.3
Chronic sinusitis	23.4	20.0	20.6	34.8	29.0	24.4
Hayfever without asthma	51.3	54.4	54.1	50.1	47.9	52.2
Stomach ulcer	9.4	8.3	8.1	9.5	6.5	6.3
Bronchitis/Emphysema	10.0	9.2	10.4	14.0	16.2	11.4
Benign and unspecified neoplasms	6.6	6.8	5.9	6.6	6.8	4.6
Hemorrhoids	15.2	12.3	15.1	17.0	17.7	11.6
Thyroid/Goiter	5.3	5.2	5.8	5.7	5.7	2.7
Varicose Veins	5.0	4.2	3.6	7.6	11.5	8.5
Gout	12.2	11.3	10.7	10.3	10.5	8.7

TABLE 16
DISTRIBUTION OF PERSONS BY ACTIVITY LIMITATION STATUS
DUE TO CHRONIC CONDITIONS ACCORDING TO SEX AND AGE, 1983 a/, b/, c/

BOTH SEXES	TOTAL b/ POPULATION	NO LIMITATION OF ACTIVITY	LIMITED BUT NOT IN MAJOR ACTIVITY	LIMITED IN AMOUNT OR KIND OF ACTIVITY	UNABLE TO CARRY ON MAJOR ACTIVITY
ALL AGES	352,685	282,117	24,265	19,832	10,482
UNDER 17 YEARS	50,106	43,905	1,942	1,822	118
17 - 44 YEARS	143,716	121,987	8,200	4,560	1,756
45 - 64 YEARS	101,990	79,649	8,348	5,941	3,955
65 YEARS AND OVER	56,873	36,575	5,774	7,509	4,653
MALE					
ALL AGES	174,827	137,089	11,411	11,317	6,787
UNDER 17 YEARS	26,798	23,279	682	1,425	118
17 - 44 YEARS	69,159	57,022	4,379	2,814	1,291
45 - 64 YEARS	50,470	38,650	3,784	3,277	2,755
65 YEARS AND OVER	28,401	18,137	2,567	3,801	2,623
FEMALE					
ALL AGES	177,858	145,028	12,854	8,515	3,696
UNDER 17 YEARS	23,308	20,626	1,260	397	-
17 - 44 YEARS	74,557	64,965	3,822	1,746	464
45 - 64 YEARS	51,521	40,999	4,564	2,665	1,201
65 YEARS AND OVER	28,472	18,438	3,208	3,708	2,031
	PERCENT DISTRIBUTION c/				
BOTH SEXES					
ALL AGES	100.00	80.0	6.9	5.6	3.0
UNDER 17 YEARS	100.00	87.6	3.9	3.6	0.2
17 - 44 YEARS	100.00	84.9	5.7	3.2	1.2
45 - 64 YEARS	100.00	78.1	8.2	5.8	3.9
65 YEARS AND OVER	100.00	64.3	10.2	13.2	8.2
MALE					
ALL AGES	100.00	78.4	6.5	6.5	3.9
UNDER 17 YEARS	100.00	86.9	2.5	5.3	0.4
17 - 44 YEARS	100.00	82.5	6.3	4.1	1.9
45 - 64 YEARS	100.00	76.6	7.5	6.5	5.5
65 YEARS AND OVER	100.00	63.9	9.0	13.4	9.2
FEMALE					
ALL AGES	100.00	81.5	7.2	4.8	2.1
UNDER 17 YEARS	100.00	88.5	5.4	1.7	-
17 - 44 YEARS	100.00	87.1	5.1	2.3	0.6
45 - 64 YEARS	100.00	79.6	8.9	5.2	2.3
65 YEARS AND OVER	100.00	64.8	11.3	13.0	7.1

a/ Numbers may not add up due to rounding.

b/ Includes unknown activity limitation.

c/ Percentage differences accounts for unknown activity limitation.

TABLE 17
DISTRIBUTION OF PERSONS BY ACTIVITY LIMITATION STATUS
DUE TO CHRONIC CONDITIONS ACCORDING TO FAMILY INCOME AND AGE, 1983 a/, b/

ALL INCOMES	*TOTAL b/ POPULATION*	*NO LIMITATION OF ACTIVITY*	*LIMITED BUT NOT IN MAJOR ACTIVITY*	*LIMITED IN AMOUNT OR KIND OF ACTIVITY*	*UNABLE TO CARRY ON MAJOR ACTIVITY*
ALL AGES	352,685	282,117	24,265	19,832	10,482
UNDER 17 YEARS	50,106	43,905	1,942	1,822	118
17 - 44 YEARS	143,716	121,987	8,200	4,560	1,756
45 - 64 YEARS	101,990	79,649	8,348	5,941	3,955
65 YEARS AND OVER	56,873	36,575	5,774	7,509	4,653
UNDER $5,000					
ALL AGES	9,436	6,302	980	1,319	629
UNDER 17 YEARS	849	736	48	-	-
17 - 44 YEARS	3,888	[illegible],055	236	330	212
45 - 64 YEARS	1,654	[illegible],006	49	290	235
65 YEARS AND OVER	3,046	1,505	648	699	182
$5,000 - $9,999					
ALL AGES	31,564	24,628	2,278	2,214	1,275
UNDER 17 YEARS	5,695	4,967	336	94	-
17 - 44 YEARS	12,357	10,592	527	514	242
45 - 64 YEARS	4,971	3,169	563	660	497
65 YEARS AND OVER	8,541	5,900	853	946	536
$10,000 - $14,999					
ALL AGES	41,125	34,242	2,004	2,423	1,621
UNDER 17 YEARS	5,721	5,166	63	327	-
17 - 44 YEARS	19,051	17,232	907	445	187
45 - 64 YEARS	8,189	6,215	534	693	617
65 YEARS AND OVER	8,164	5,629	501	958	817
$15,000 - $19,999					
ALL AGES	34,166	26,933	2,340	2,983	1,022
UNDER 17 YEARS	4,733	4,192	69	403	-
17 - 44 YEARS	14,594	12,186	806	963	266
45 - 64 YEARS	8,804	6,534	895	723	378
65 YEARS AND OVER	6,035	4,021	569	894	379
$20,000 - $24,999					
ALL AGES	35,188	30,134	1,704	1,500	512
UNDER 17 YEARS	5,005	4,371	245	100	-
17 - 44 YEARS	15,085	13,456	655	354	42
45 - 64 YEARS	10,826	9,173	445	583	313
65 YEARS AND OVER	4,273	3,133	359	463	157
$25,000 AND OVER					
ALL AGES	143,646	121,575	9,309	5,682	2,748
UNDER 17 YEARS	21,519	19,074	839	726	118
17 - 44 YEARS	59,105	52,009	3,741	792	589
45 - 64 YEARS	49,120	41,898	3,203	2,160	708
65 YEARS AND OVER	13,902	8,595	1,526	2,006	1,333

a/ Numbers may not add up due to rounding.

b/ Includes unknown activity limitation.

TABLE 18
PERCENT DISTRIBUTION OF PERSONS BY ACTIVITY LIMITATION STATUS
DUE TO CHRONIC CONDITIONS ACCORDING TO FAMILY INCOME AND AGE, 1983 *

ALL INCOMES	*TOTAL POPULATION*	*NO LIMITATION OF ACTIVITY*	*LIMITED BUT NOT IN MAJOR ACTIVITY*	*LIMITED IN AMOUNT OR KIND OF ACTIVITY*	*UNABLE TO CARRY ON MAJOR ACTIVITY*
ALL AGES	100.00	80.0	6.9	5.6	3.0
UNDER 17 YEARS	100.00	87.6	3.9	3.6	0.2
17 - 44 YEARS	100.00	84.9	5.7	3.2	1.2
45 - 64 YEARS	100.00	78.1	8.2	5.8	3.9
65 YEARS AND OVER	100.00	64.3	10.2	13.2	8.2
UNDER $5,000					
ALL AGES	100.00	66.8	10.4	14.0	6.7
UNDER 17 YEARS	100.00	86.7	5.7	-	-
17 - 44 YEARS	100.00	78.6	6.1	8.5	5.5
45 - 64 YEARS	100.00	60.8	3.0	17.5	14.2
65 YEARS AND OVER	100.00	49.4	21.3	22.9	6.0
$5,000 - $9,999					
ALL AGES	100.00	78.0	7.2	7.0	4.0
UNDER 17 YEARS	100.00	87.2	5.9	1.7	-
17 - 44 YEARS	100.00	85.7	4.3	4.2	2.0
45 - 64 YEARS	100.00	63.8	11.3	13.3	10.0
65 YEARS AND OVER	100.00	69.1	10.0	11.1	6.3
$10,000 - $14,999					
ALL AGES	100.00	83.3	4.9	5.9	3.9
UNDER 17 YEARS	100.00	90.3	1.1	5.7	-
17 - 44 YEARS	100.00	90.5	4.8	2.3	1.0
45 - 64 YEARS	100.00	75.9	6.5	8.5	7.5
65 YEARS AND OVER	100.00	68.9	6.1	11.7	10.0
$15,000 - $19,999					
ALL AGES	100.00	78.8	6.8	8.7	3.0
UNDER 17 YEARS	100.00	88.6	1.5	8.5	-
17 - 44 YEARS	100.00	83.5	5.5	6.6	1.8
45 - 64 YEARS	100.00	74.2	10.2	8.2	4.3
65 YEARS AND OVER	100.00	66.6	9.4	14.8	6.3
$20,000 - $24,999					
ALL AGES	100.00	85.6	4.8	4.3	1.5
UNDER 17 YEARS	100.00	87.3	4.9	2.0	-
17 - 44 YEARS	100.00	89.2	4.3	2.3	0.2
45 - 64 YEARS	100.00	84.7	4.1	5.4	2.9
65 YEARS AND OVER	100.00	73.3	8.4	10.8	3.7
$25,000 AND OVER					
ALL AGES	100.00	84.6	6.5	4.0	1.9
UNDER 17 YEARS	100.00	88.6	3.9	3.4	0.5
17 - 44 YEARS	100.00	88.0	6.3	1.3	1.0
45 - 64 YEARS	100.00	85.3	6.5	4.4	1.4
65 YEARS AND OVER	100.00	61.8	11.0	14.4	9.6

*Percentage difference accounts for unknown activity limitation.

TABLE 19
INCIDENCE OF ACUTE CONDITIONS PER YEAR BY GEOGRAPHIC AREA, 1983*

	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAII
ALL ACUTE CONDITIONS	2,056,074	1,634,746	429,236	133,747	718,344	79,878	273,540	70,757	157,040	193,531
INFECTIVE PARASITIC DISEASES	99,727	70,277	18,008	2,772	32,420	-	17,076	6,977	11,706	10,768
RESPIRATORY CONDITIONS	1,518,636	1,246,974	311,982	112,658	578,705	69,850	173,779	42,502	97,136	132,024
DIGESTIVE SYSTEM CONDITIONS	38,579	27,980	12,146	1,115	11,593	-	3,126	1,486	4,892	4,220
INJURIES	171,575	124,772	38,437	8,792	37,486	3,142	36,916	6,768	15,306	24,728
ALL OTHER ACUTE CONDITIONS	227,557	164,742	48,662	8,410	58,140	6,887	42,643	13,025	28,000	21,791

*Numbers may not add up due to rounding.

TABLE 20
NUMBER OF ACUTE CONDITIONS PER 100 PERSONS PER YEAR BY GEOGRAPHIC AREA, 1983

	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAII
ALL ACUTE CONDITIONS	208.6	214.9	184.2	160.9	246.9	243.5	226.1	163.8	198.0	189.0
INFECTIVE PARASITIC DISEASES	10.1	9.2	7.7	3.3	11.1	-	14.1	16.2	14.8	10.5
RESPIRATORY CONDITIONS	154.1	163.9	133.9	135.5	198.9	212.9	143.6	98.4	122.5	128.9
DIGESTIVE SYSTEM CONDITIONS	3.9	3.7	5.2	1.3	4.0	-	2.6	3.4	6.2	4.1
INJURIES	17.4	16.4	16.5	10.6	12.9	9.6	30.5	15.7	19.3	24.2
ALL OTHER ACUTE CONDITIONS	23.1	21.7	20.9	10.1	20.0	21.0	35.3	30.2	35.3	21.3

TABLE 21
INCIDENCE OF ACUTE CONDITIONS IN THE PAST YEAR BY AGE, 1983*

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	2,056,074	830,707	855,436	265,450	104,482
Infective Parasitic Diseases	99,727	55,697	35,108	6,220	2,702
Respiratory Conditions	1,518,636	636,440	606,191	201,653	74,352
Digestive System Conditions	38,579	13,075	16,530	5,714	3,259
Injuries	171,575	47,042	81,262	30,859	12,412
All Other Acute Conditions	227,557	78,452	116,345	21,004	11,756

* Numbers may not add up due to rounding.

TABLE 22
NUMBER OF ACUTE CONDITIONS PER 100 PERSONS PER YEAR BY AGE, 1983

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	208.6	303.5	192.1	141.8	131.4
Infective Parasitic Diseases	10.1	20.3	7.9	3.3	3.4
Respiratory Conditions	154.1	232.5	136.1	107.7	93.5
Digestive System Conditions	3.9	4.8	3.7	3.1	4.1
Injuries	17.4	17.2	18.3	16.5	15.6
All Other Acute Conditions	23.1	28.7	26.1	11.2	14.8

TABLE 23
INCIDENCE OF ACUTE CONDITIONS FOR MALES IN THE PAST YEAR BY AGE, 1983*

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	928,759	407,825	368,286	117,390	35,258
Infective Parasitic Diseases	48,112	27,419	14,890	4,852	952
Respiratory Conditions	676,855	308,504	255,431	84,984	27,936
Digestive System Conditions	17,740	4,865	10,231	906	1,738
Injuries	99,498	26,317	54,097	17,467	1,616
All Other Acute Conditions	86,555	40,720	33,637	9,181	3,017

* Numbers may not add up due to rounding.

TABLE 24
NUMBER OF ACUTE CONDITIONS PER 100 MALES PER YEAR BY AGE, 1983

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	188.0	288.4	166.1	130.2	86.3
Infective Parasitic Diseases	9.7	19.4	6.7	5.4	2.3
Respiratory Conditions	137.0	218.2	115.2	94.3	68.4
Digestive System Conditions	3.6	3.4	4.6	1.0	4.3
Injuries	20.1	18.6	24.4	19.4	4.0
All Other Acute Conditions	17.5	28.8	15.2	10.2	7.4

TABLE 25
INCIDENCE OF ACUTE CONDITIONS FOR FEMALES IN THE PAST YEAR BY AGE, 1983*

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	1,127,315	422,882	487,150	148,060	69,223
Infective Parasitic Diseases	51,616	28,278	20,219	1,368	1,751
Respiratory Conditions	841,781	327,936	350,760	116,669	46,416
Digestive System Conditions	20,839	8,210	6,299	4,808	1,522
Injuries	72,077	20,725	27,164	13,392	10,795
All Other Acute Conditions	141,002	37,733	82,708	11,822	8,740

* Numbers may not add up due to rounding.

TABLE 26
NUMBER OF ACUTE CONDITIONS PER 100 FEMALES PER YEAR BY AGE, 1983

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	229.3	319.5	217.9	152.6	178.9
Infective Parasitic Diseases	10.5	21.4	9.0	1.4	4.5
Respiratory Conditions	171.2	247.8	156.9	120.2	120.0
Digestive System Conditions	4.2	6.2	2.8	5.0	3.9
Injuries	14.7	15.7	12.2	13.8	27.9
All Other Acute Conditions	28.7	28.5	37.0	12.2	22.6

TABLE 27
INCIDENCE OF ACUTE CONDITIONS IN THE PAST YEAR BY ETHNICITY, 1983

	CAUCASIAN	JAPANESE	HAWAIIAN PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
All Acute Conditions	609,304	337,963	491,569	177,916	57,487	381,835
Infective Parasitic Diseases	37,166	14,776	26,322	5,942	2,993	12,528
Respiratory Conditions	407,519	256,870	370,487	151,216	38,959	293,586
Digestive System Conditions	10,948	7,711	8,236	952	2,362	8,371
Injuries	76,732	21,277	35,885	6,239	7,268	24,174
All Other Acute Conditions	76,939	37,330	50,640	13,567	5,905	43,176

TABLE 28
NUMBER OF ACUTE CONDITIONS PER 100 PERSONS PER YEAR BY ETHNICITY, 1983

	CAUCASIAN	JAPANESE	HAWAIIAN PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
All Acute Conditions	251.9	148.0	249.8	159.4	122.9	238.2
Infective Parasitic Diseases	15.4	6.5	13.4	5.3	6.4	7.8
Respiratory Conditions	168.5	112.5	188.3	135.5	83.3	183.1
Digestive System Conditions	4.5	3.4	4.2	0.9	5.0	5.2
Injuries	31.7	9.3	18.2	5.6	15.5	15.1
All Other Acute Conditions	31.8	16.3	25.7	12.2	12.6	26.9

TABLE 29
NUMBER OF ACUTE CONDITIONS PER 100
PERSONS PER YEAR (1978-1983)

	1978	1979	1980	1981	1982	1983
All Acute Conditions	173.8	209.2	168.8	204.8	224.0	208.6
Infective Parasitic Diseases	10.8	14.1	10.2	16.9	15.4	10.1
Respiratory Conditions	118.8	138.8	114.0	141.4	156.3	154.1
Digestive System Conditions	3.7	3.7	3.2	3.7	3.3	3.9
Injuries	19.9	27.8	21.1	18.2	21.2	17.4
All Other Acute Conditions	20.6	24.8	20.3	24.5	27.9	23.1

TABLE 30
NUMBER OF RESTRICTED DAYS FOR PERSONS IN THE PAST 12 MONTHS
BY GEOGRAPHIC AREA AND AGE, 1983*

	All Ages	Under 17	17-44 Years	45-64 Years	65 & Over
State	12,788,125	2,583,206	5,168,442	3,277,392	1,759,085
Oahu	10,013,070	2,122,470	3,926,146	2,597,191	1,367,263
East Honolulu	2,763,091	296,276	1,201,537	774,401	490,877
West Honolulu	1,174,916	155,599	319,508	459,109	240,700
Central Oahu	3,112,992	1,052,064	1,329,179	519,881	211,868
Waianae	981,406	249,718	370,283	219,282	142,123
Windward	1,980,665	368,813	705,638	624,518	281,695
Kauai	280,025	99,085	104,645	59,610	16,685
Maui County	1,227,047	192,448	610,387	244,608	179,604
Hawaii	1,267,984	169,204	527,264	375,983	195,533

* Numbers may not add up due to rounding.

TABLE 31
AVERAGE NUMBER OF RESRICTED DAYS PER PERSON PER YEAR
IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1983

	All Ages	Under 17	17-44 Years	45-64 Years	65 & Over
State	13.0	9.5	11.6	17.5	22.2
Oahu	13.2	10.2	11.2	18.2	24.4
East Honolulu	11.9	7.4	11.0	13.6	18.7
West Honolulu	14.2	6.7	10.2	25.5	23.6
Central Oahu	10.7	11.0	9.4	12.7	17.9
Waianae	30.0	19.7	27.2	46.0	84.7
Windward	16.4	10.0	12.6	28.8	45.4
Kauai	6.5	8.0	6.1	6.9	3.5
Maui County	15.5	8.7	18.1	15.8	22.7
Hawaii	12.4	5.7	12.8	18.5	18.6

TABLE 32
NUMBER OF BED DAYS FOR PERSONS IN THE PAST 12 MONTHS
BY GEOGRAPHIC AREA AND AGE, 1983*

	All Ages	Under 17	17-44 Years	45-64 Years	65 & Over
State	4,114,394	924,049	1,468,680	1,005,668	715,997
Oahu	3,016,810	734,782	1,025,346	786,317	470,365
East Honolulu	653,077	63,910	247,201	246,514	95,453
West Honolulu	193,968	54,370	46,858	78,164	14,576
Central Oahu	1,111,456	406,868	395,228	189,078	120,281
Waianae	427,291	103,266	159,192	95,039	69,794
Windward	631,018	106,368	176,867	177,522	170,261
Kauai	93,978	28,118	36,454	20,977	8,429
Maui County	487,736	67,166	218,662	71,293	130,615
Hawaii	515,870	93,983	188,219	127,081	106,588

* Numbers may not add up due to rounding.

TABLE 33
AVERAGE NUMBER OF BED DAYS PER PERSON PER YEAR
IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1983

	All Ages	Under 17	17-44 Years	45-64 Years	65 & Over
State	4.2	3.4	3.3	5.4	9.0
Oahu	4.0	3.6	2.9	5.6	8.4
East Honolulu	2.8	1.6	2.3	4.4	3.7
West Honolulu	2.4	2.4	1.5	4.4	1.5
Central Oahu	3.9	4.3	2.8	4.6	10.2
Waianae	13.1	8.2	11.7	20.0	41.6
Windward	5.3	2.9	3.2	8.2	27.4
Kauai	2.2	2.3	2.1	2.5	1.8
Maui County	6.2	3.1	6.5	4.6	16.5
Hawaii	5.1	3.2	4.6	6.3	10.2

TABLE 34
NUMBER OF WORK DAYS LOST FOR PERSONS 17 YEARS OF AGE AND OLDER
IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1983*

	17 Years and Over	17-44 Years	45 Years & Over
State	1,411,259	855,404	555,854
Oahu	942,935	544,817	398,118
East Honolulu	347,040	211,364	135,676
West Honolulu	52,859	39,194	13,664
Central Oahu	246,780	151,973	94,807
Waianae	26,184	20,255	5,929
Windward	270,072	122,030	148,042
Kauai	73,048	37,925	35,123
Maui County	160,436	119,956	40,481
Hawaii	234,840	152,707	82,133

* Numbers may not add up due to rounding.

TABLE 35
AVERAGE NUMBER OF WORK DAYS LOST PER PERSON 17 YEARS OF AGE AND OLDER PER YEAR IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1983

	17 Years and Over	17-44 Years	45 Years & Over
State	2.0	2.0	2.1
Oahu	1.7	1.6	2.0
East Honolulu	1.8	2.0	1.7
West Honolulu	0.9	1.3	0.5
Central Oahu	1.3	1.1	1.8
Waianae	1.3	1.5	1.0
Windward	3.3	2.2	5.3
Kauai	2.4	2.2	2.6
Maui County	2.8	3.6	1.8
Hawaii	3.3	3.7	2.7

TABLE 36
TOTAL NUMBER AND AVERAGE SCHOOL DAYS LOST PER PERSON 6-16 YEARS OF AGE
IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1983*

	TOTAL	AVERAGE
State	570,942	3.3
Oahu	432,156	3.3
East Honolulu	90,490	3.3
West Honolulu	35,126	2.2
Central Oahu	204,684	3.5
Waianae	25,559	3.2
Windward	76,297	3.3
Kauai	36,659	4.8
Maui County	41,562	3.0
Hawaii	60,565	3.4

*Numbers may not add up due to rounding.

HAWAII STATE HEALTH PLANNING AND DEVELOPMENT AGENCY

HAWAII STATE HEALTH PLANNING AND DEVELOPMENT AGENCY

Annual Summary of Acute, Long Term Care and Specialty Hospital Utilization by County, Hawaii 1978-1983

Hawaii's State Health Planning and Development Agency (SHPDA) is an agency of state government, administratively attached to the State Department of Health. The Agency (SHPDA) works with the Hawaii Statewide Health Coordinating Council (HSHCC) and the eight Subarea Health Planning Councils (SACs) throughout the State. Authorized by the National Health Planning and Resources Development Act, the Agency was established in July, 1976 after amendments to Chapter 323D, Hawaii Revised Statutes. The Hawaii State Legislature appropriates funds for the Agency, to match the Federal funds provided by the Department of Health and Human Services.

One of the responsibilities of the Agency is to draft a state health plan. The Agency also staffs HSHCC and the eight SACs, and promotes the implementation of the Health Services and Facilities Plan. The goals of the Agency's planning and development activities are:

1. Improve the health of the residents of the State.
2. Increase the accessibility, acceptability, availability, continuity and quality of health services provided them.
3. Contain increases in the cost of providing health services.
4. Prevent the unnecessary duplication of health resources.

The Agency collects information on the utilization of inpatient facilities in the State and prepares an annual summary. The 1978 data in this report were obtained by SHPDA directly from each of the inpatient facilities in the State. In 1979, SHPDA initiated a Quarterly Utilization Report which included daily census data from each facility for each type of bed. The 1978-83 facility data are complete, as reported to the Agency.

Admissions

The number of admissions is defined as the number of inpatient admissions. A given person could be admitted more than once during a year. The critical care admissions are included in the categories shown. Data on the use rate of critical care beds is available by contacting SHPDA.

The number of admissions multipled by the average length of stay produces the total number of patient days.

Average Daily Census (ADC)

The average daily census provides the mean number of beds occupied during the year. The average daily census multiplied by 365 gives the total number of patient days per year. The average daily census divided by the bed capacity and multiplying by 100 gives the occupancy rate.

Occupancy Rates

As mentioned above, percentage occupancy can be computed by dividing the ADC by the number of licensed beds and multiplying by 100. This provides an idea of the proportion of bed capacity occupied on the average day. As with ADC, this will fluctuate from day to day and by type of bed and place. There are

national standards which are felt to indicate optimal bed occupancy levels. If a hospital's occupancy is too high, it may not have adequate capacity to accept new patients. Also, some extra beds are always needed in order to allow for maintenance, etc. Usually high occupancy in long term care beds is more acceptable, i.e., above 95%, since there is less daily fluctuation in daily census. In acute care, particularly where patients are admitted on a non-scheduled basis, e.g., OB, CCU, etc., the optimal occupancy can be lower in order to permit unforseen admissions. For other types of acute beds, an occupancy of about 80-85% is acceptable because admissions can be scheduled if bed capacity is fully utilized on a given day.

In some instances, occupancy may run over 100% because of an overflow situation. This might occur if there are, for example, too many of a given type of patient who must be temporarily assigned to another bed type. Where occupancy rates are very high, this is an indication of an inadequate supply of that type of bed on a given island; where they are low, it is an indication of either an adequate supply or surplus of that type of bed on that island.

Average Length of Stay (ALOS)

The average length of stay is the average number of days patients remain in the facility per hospital stay. For acute care, this is computed by dividing the total patient days by the number of admissions. For long term care, this is computed dividing the patient days by the number of discharges. This is done because long term care patients remain in a facility for several years.

Length of stay can be thought of as an indicator of either efficiency or seriousness of patient's illness. Where facilities are able to discharge patients in a shorter time, they might be thought of as being more efficient. However, in some instance where patients remain out of a hospital until their condition is more serious or where outpatient care is encouraged for less serious conditions, patients admitted may be required to stay longer.

In addition, in the event that long term care patients are occupying acute beds because they cannot find long term accommodations, this may tend to increase the acute length of stay--confusing the interpretation. It would be best if, when computing length of stay, waitlisted long term care patients could be omitted from the acute inpatient care data. This has not been done in these data.

TABLE 1
SHPDA RECOGNIZED ACUTE CARE BED CAPACITY
STATE OF HAWAII, 1984

	Medical/ Surgical	Critical Care[a]	Obstetric	Pediatric	Neonatal ICU	Psych	Total
METROPOLITAN							
Kaiser	110	16	30	18	-	-	174
Kapiolani	68	10[b]	60	-	-	-	138
Children's	-	12[c]	-	64	12[d]	-	88
Kuakini	225	25	-	-	-	-	250
Queen's	404	27	25	-	-	50	506
St. Francis	230	22	-	4	-	-	256
Straub	136	23	-	-	-	-	159
Subtotal	1173	135	115	86	12	50	1571
SUBURBAN							
Castle	79	8	14	-	-	55	156
Kahuku	6	2	3	-	-	-	11
Wahiawa	50	5	14	-	-	25	94
Subtotal	135	15	31	-	-	80	261
OAHU TOTAL	1308	150	146	86	12	130	1832
MILITARY							
Tripler	387	-	41	17	-	64	509[e]
HAWAII COUNTY							
Hilo	84	12	18	30	-	21	165
Honokaa	19	2	4	2	-	-	27
Ka'u	4	1	2	-	-	-	7
Kohala	6	-	4	-	-	-	10
Kona	31	6	8	-	-	8	53
Subtotal	144	21	36	32	-	29	262
MAUI COUNTY							
Maui Island							
Hana	4	-	-	-	-	-	4
Kula	4	-	-	-	-	-	4
Maui	87	8	21	12	-	14	142
Lanai Island							
Lanai	3	1	1	-	-	1	6
Molokai Island							
Molokai	5	-	4	-	-	-	9
Subtotal	103	9	26	12	-	15	165
KAUAI COUNTY							
Mahelona	-	-	-	-	-	9	9
Kauai Vet.	29	2	7	-	-	-	38
G.N. Wilcox	64	8	9	-	-	-	81
Subtotal	93	10	16	-	-	9	128
N.I. TOTAL	340	40	78	44	-	53	555
STATE TOTAL W/O TRIPLER	1648	190	224	130	12	183	2387
STATE TOTAL W/ TRIPLER	2035	190	265	147	12	247	2896

a. Includes coronary and intensive care units
b. Perinatal intensive care (PICU)
c. Includes six Ped ICU and Ped Intermediate Care
d. 12 neonatal isolettes
e. Tripler uses a total bed capacity of 561, which includes 52 nursery beds

SOURCE: SHPDA, March 31, 1984

TABLE 2
SHPDA RECOGNIZED LONG TERM CARE BED CAPACITY
STATE OF HAWAII, 1984

	Skilled Nursing	Intermediate	SNF/ICF	Acute/SNF Swing	Total
OAHU					
Ann Pearl	-	86	-	-	86
Arcadia	56	-	-	-	56
Beverly Manor	-	-	108	-	108
Convalescent Center	180	-	-	-	180
Crawford's	-	68	-	-	68
Hale Ho Aloha	-	73	-	-	73
Hale Malamalama	-	31	-	-	31
Hale Nani	-	-	232	-	232
Island Nursing	42	-	-	-	42
Kahanaola	-	-	42	-	42
Kahuku	11	-	-	4	15
Kuakini	50	100	-	-	150
Leahi	98	42	-	-	140
Leeward	-	50	-	-	50
Maluhia	-	-	150	-	150
Maunalani	101	-	-	-	101
Nuuanu Hale	75	-	-	-	75
St. Francis	52	-	-	-	52
Wahiawa	-	-	91	-	91
Total Oahu	665	450	623	4	1742
HAWAII COUNTY					
Life Care Center	-	240	-	-	240
Hilo Hospital	36	72	-	-	108
Honokaa	8	-	-	-	8
Ka'u	8	-	-	-	8
Kohala	4	12	-	-	16
Kona	-	-	22	-	22
Total Hawaii County	56	324	22	-	402
MAUI COUNTY					
Hale Makua	120	124	-	-	244
Kula	-	-	94	-	94
Lanai	-	-	8	-	8
Molokai	-	-	-	22	22
Total Maui County	120	124	102	22	368
KAUAI COUNTY					
Kauai Veterans	6	-	-	-	6
Mahelona	-	-	56	-	56
G.N. Wilcox	-	-	74	-	74
Total Kauai County	6	-	130	-	136
STATE TOTAL	847	898	877	26	2648

SOURCE: SHPDA, March 31, 1984

TABLE 3
SHPDA RECOGNIZED SPECIALTY CARE BED CAPACITY
STATE OF HAWAII, 1984

	Psych	TB	MR	ICF/MR	SNF/MR	Leprosy	Rehab	Children's Ortho	M/S	Total
Hale Mohalu	-	-	-	-	-	21	-	-	-	21
Hawaii State	219	-	-	-	-	-	-	-	-	219
Kahi Mohala	88	-	-	-	-	-	-	-	-	88
Kalaupapa	-	-	-	-	-	24	-	-	-	24
Kula	-	-	8	-	-	-	-	-	-	8
Leahi	20	21	-	-	-	-	-	-	5	46
Mahelona	-	11	-	-	-	-	-	-	-	11
Rehab. Hospital	-	-	-	-	-	-	100	-	-	100
Shriner's	-	-	-	-	-	-	-	40	-	40
Waimanu	-	-	-	350	60	-	-	-	-	410
GRAND TOTAL	327	32	8	350	60	45	100	40	5	967

SOURCE: SHPDA Bed Inventory, March 31, 1984

TABLE 4
AVERAGE LENGTH OF STAY BY COUNTIES

	1978	1979	1980	1981	1982	1983
LONG TERM CARE						
Oahu	318.4	400.4	362.8	390.5	387.8	409.2
Hawaii	145.4	274.6	239.8	304.3	336.6	233.2
Kauai	194.4	292.7	242.7	354.6	335.8	263.5
Tri-Isle	461.1	354.0	384.4	347.1	330.8	406.5
Maui	510.7	359.2	316.3	347.6	338.4	426.4
Molokai	113.5	322.1	409.2	263.0	203.3	213.7
Lanai	102.1	-	342.3	286.1	323.1	216.2
TOTAL ACUTE						
Oahu w/o Tripler	6.4	6.7	6.5	6.5	6.6	6.3
Hawaii	4.1	3.9	3.8	4.7	4.1	4.2
Kauai	5.7	5.7	5.2	4.7	5.5	4.6
Tri-Isle	5.2	4.8	4.8	4.9	4.9	4.9
Maui	5.4	5.0	4.9	4.8	5.1	3.5
Molokai	2.9	2.3	2.7	2.5	2.7	3.7
Lanai	2.3	1.6	2.3	4.9	2.9	4.2
MEDICAL-SURGICAL						
Oahu w/o Tripler	7.3	8.0	7.7	7.4	7.6	7.1
Hawaii	4.7	4.4	4.2	4.5	4.6	5.2
Kauai	6.2	7.5	6.6	7.4	7.8	6.0
Tri-Isle	6.0	5.7	5.7	5.6	6.0	5.9
Maui	6.2	5.9	5.8	5.7	6.1	6.0
Molokai	3.5	2.6	3.0	3.1	3.5	4.6
Lanai	2.6	1.7	2.5	2.5	3.0	5.3
CRITICAL CARE (ICU/CCU)						
Oahu w/o Tripler	-	4.6	3.8	-	7.2	7.7
Hawaii	-	2.5	2.8	3.2	2.9	2.7
Kauai	-	2.4	2.6	2.0	2.1	1.5
Tri-Isle	-	3.3	3.1	3.0	3.2	2.6
Maui	-	3.3	3.1	-	3.2	2.6
OBSTETRIC						
Oahu w/o Tripler	3.0	3.1	3.3	3.3	3.2	3.1
Hawaii	2.5	2.5	2.5	2.4	2.3	2.2
Kauai	2.8	2.6	2.5	2.5	2.6	2.0
Tri-Isle	2.9	2.2	2.2	2.1	2.0	2.0
Maui	3.0	2.3	2.2	2.2	2.1	2.1
Molokai	1.9	1.8	1.9	1.6	1.5	1.5
Lanai	1.3	1.5	2.0	-	1.3	1.4
PEDIATRIC						
Oahu w/o Tripler	4.5	4.0	3.9	3.9	3.9	3.8
Hawaii	3.7	3.3	3.0	2.9	2.8	2.8
Kauai	3.6	3.1	2.8	3.1	2.6	2.2
Tri-Isle	2.4	3.6	3.1	3.0	4.0	3.5
Maui	2.5	3.9	3.1	3.2	3.9	3.7
Molokai	1.9	2.0	2.9	1.3	1.0	1.8
PSYCHIATRIC						
Oahu w/o Tripler	9.8	10.8	11.4	10.0	11.4	10.0
Hawaii	6.3	6.6	7.8	8.1	9.1	7.8
Kauai	15.3	11.4	9.1	7.8	6.4	6.9
Tri-Isle	3.9	6.0	7.3	9.0	6.4	6.3
Maui	4.0	6.1	7.7	9.4	6.7	-
Molokai	1.9	1.4	1.6	1.0	1.3	6.3
MENTALLY RETARDED (State)	3350.2	2263.0	1449.1	1761.5	3372.9	
SPECIALTY (State)	52.4	129.7	129.7	122.5	116.6	

SHPDA: May 1984

TABLE 5
OCCUPANCY RATES BY COUNTIES

	1978	1979	1980	1981	1982	1983
LONG TERM CARE						
Oahu	96.7	94.3	91.4	94.4	96.0	95.4
Hawaii	85.2	87.3	92.[illegible]	95.3	82.9	94.6
Kauai	102.2	98.7	94.8	101.2	99.8	94.5
Tri-Isle	68.0	79.2	87.6	93.2	94.9	96.8
Maui	67.7	79.6	89.2	94.4	95.4	97.5
Molokai	91.7	117.7	46.6	78.3	92.5	97.6
Lanai	62.6	21.8	81.8	68.8	77.5	66.6
TOTAL ACUTE						
Oahu w/o Tripler	73.5	77.7	77.3	78.1	79.1	76.5
Hawaii	44.1	43.2	46.0	50.0	49.5	48.2
Kauai	43.9	51.4	46.1	51.8	57.4	49.5
Tri-Isle	56.4	51.0	57.7	54.9	59.1	62.3
Maui	66.4	61.6	63.9	62.1	65.5	67.3
Molokai	18.4	11.1	20.8	20.0	19.3	34.0
Lanai	6.9	.6	2.5	1.7	5.0	13.3
MEDICAL-SURGICAL						
Oahu w/o Tripler	74.8	81.3	81.6	81.7	83.0	77.2
Hawaii	46.1	53.1	57.8	63.3	63.9	60.8
Kauai	42.3	53.9	49.8	58.6	64.1	54.2
Tri-Isle	61.2	63.0	76.0	70.4	76.8	81.8
Maui	71.7	78.9	82.6	79.3	82.5	86.0
Molokai	20.2	10.8	27.5	28.8	37.5	55.0
Lanai	8.8	.9	3.5	3.3	10.0	23.3
CRITICAL CARE (ICU/CCU)						
Oahu w/o Tripler	72.4	67.4	53.3	68.5	80.0	73.5
Hawaii	35.7	41.6	39.6	41.9	41.7	39.0
Kauai	36.8	29.9	27.9	6.0	36.0	28.0
Tri-Isle	45.3	50.8	51.9	57.5	55.2	57.8
Maui	45.3	57.1	58.4	57.5	62.3	63.8
OBSTETRICS						
Oahu w/o Tripler	74.8	69.8	75.9	76.3	76.8	81.4
Hawaii	41.1	35.6	37.7	37.8	35.9	33.6
Kauai	44.9	47.7	41.8	40.6	46.0	46.3
Tri-Isle	32.3	29.8	28.2	28.5	27.9	30.0
Maui	33.7	31.7	32.3	33.3	32.5	34.1
Molokai	29.0	25.0	12.9	12.5	10.0	10.0
Lanai	6.3	.8	4.4		1.0	5.0
PEDIATRICS						
Oahu w/o Tripler	52.0	43.4	41.1	46.9	47.8	60.0
Hawaii	27.3	21.6	18.8	18.5	16.7	19.0
Kauai	72.8	55.8	40.1	48.3	43.3	35.0
Tri-Isle	39.7	23.5	25.4	25.7	35.5	31.4
Maui	65.2	28.9	26.7	25.8	40.5	35.0
Molokai	7.8	7.5	17.9	10.0	5.0	10.0
PSYCHIATRIC						
Oahu w/o Tripler	102.1	119.7	114.7	103.0	90.5	78.3
Hawaii	67.7	31.7	35.9	41.7	39.6	49.0
Kauai	47.7	51.4	36.6	46.7	36.7	45.6
Tri-Isle	89.8	26.7	20.0	21.9	20.0	19.4
Maui	176.2	30.3	22.5	24.3	22.4	22.1
Molokai	6.9	2.7	4.9	2.0	3.0	-

SHPDA: May 1984

TABLE 6
AVERAGE DAILY CENSUS BY COUNTIES

	1978	1979	1980	1981	1982	1983
LONG TERM CARE						
Oahu	1487.3	1499.7	1591.1	1644.2	1669.9	1656.8
Hawaii	305.0	354.4	371.6	386.8	387.4	387.8
Kauai	123.7	119.5	114.7	122.4	125.8	128.5
Tri-Isle	244.7	284.2	320.3	333.8	339.9	346.4
Maui	234.2	274.3	308.2	319.0	322.6	329.4
Molokai	5.5	7.1	5.6	9.4	11.1	11.7
Lanai	5.0	1.7	6.5	5.5	6.2	5.3
TOTAL ACUTE						
Oahu w/o Tripler	1278.9	-	1342.2	1376.1	1417.5	1357.1
Hawaii	119.4	114.5	121.8	131.0	129.6	122.5
Kauai	63.2	73.6	65.9	74.0	82.1	70.8
Tri-Isle	101.6	90.3	96.3	93.9	98.7	104.1
Maui	96.6	87.5	92.7	-	95.6	98.2
Molokai	4.6	2.8	3.1	3.0	2.9	5.1
Lanai	.4	.04	.1	.1	.3	.8
MEDICAL-SURGICAL						
Oahu w/o Tripler	1017.4	1017.3	1019.0	1039.1	1070.9	1011.2
Hawaii	87.2	75.4	82.1	89.9	90.7	86.3
Kauai	47.3	55.0	50.8	59.8	65.3	54.4
Tri-Isle	85.7	70.6	77.5	74.6	78.3	83.4
Maui	81.7	68.6	75.2	72.2	75.1	78.3
Molokai	3.6	1.9	2.2	2.3	3.0	4.4
Lanai	.4	.03	.1	.1	.1	.7
CRITICAL CARE (ICU/CCU)						
Oahu w/o Tripler	61.2	86.2	66.1	-	109.6	118.5
Hawaii	7.5	8.7	8.3	8.8	8.7	8.2
Kauai	3.4	3.0	2.8	.6	3.6	2.8
Tri-Isle	3.6	4.6	4.7	4.6	5.0	5.2
Maui	3.6	4.6	4.7	4.6	5.0	5.1
OBSTETRICS						
Oahu w/o Tripler	110.8	104.7	113.8	114.5	115.2	120.5
Hawaii	14.8	12.8	13.6	13.6	12.9	12.1
Kauai	7.2	7.6	6.7	6.5	7.4	7.4
Tri-Isle	8.7	7.2	7.3	7.5	7.2	7.9
Maui	8.1	6.6	6.8	7.0	6.8	7.5
Molokai	.6	.5	.5	.5	.4	.4
Lanai	.1	.008	.04	-	-	-
PEDIATRICS						
Oahu w/o Tripler	89.5	64.2	60.9	65.6	67.5	52.3
Hawaii	9.3	7.3	6.4	6.3	5.7	6.5
Kauai	4.4	3.3	2.4	2.9	2.6	2.1
Tri-Isle	3.6	3.8	3.6	3.6	5.0	4.4
Maui	3.3	3.5	3.2	3.5	4.9	4.2
Molokai	.3	.3	.4	.2	.1	.2
PSYCHIATRIC						
Oahu w/o Tripler	61.2	119.7	82.5	61.8	54.3	54.8
Hawaii	8.1	10.2	11.5	12.5	11.5	10.3
Kauai	4.3	4.6	3.3	4.2	3.3	6.9
Tri-Isle	3.6	4.3	3.2	3.5	3.2	6.3
Maui	3.5	4.2	3.1	3.4	3.1	6.3
Molokai	.07	.02	.05	.02	.03	-
MENTALLY RETARDED (State)	477.7	446.4	423.7	405.4	360.4	-
SPECIALTY (State)	322.4	359.3	373.0	365.4	390.3	-

SHPDA: May 1984

TABLE 7
NUMBER OF ADMISSIONS BY COUNTY

	1978	1979	1980	1981	1982	1983
LONG TERM CARE						
Oahu	1483	1367[1]	1605[2]	1537	1572	1478
Hawaii	759	471	567	464	420	607
Kauai	190	149	173	126	131	178
Tri-Isle	179	287	305	351	375	311
Maui	172	279	293	331	348	282
Molokai	3	8	7	13	20	20
Lanai	4	-	5	7	7	9
TOTAL ACUTE						
Oahu w/o Tripler	72386	74076	75875	77152	78155	78459
Hawaii	10588	10574	11599	10206	11526	10455
Kauai	4517	4727	4633	4565	5400	5597
Tri-Isle	7120	6801	7337	7324	7293	7820
Maui	6578	6359	6888	6868	6866	7253
Molokai	495	484	426	436	395	500
Lanai	47	8	23	20	37	67
MEDICAL-SURGICAL						
Oahu w/o Tripler	50855	46655	48370	51495	51335	51853
Hawaii	7508	6263	7162	7272	7160	6017
Kauai	3023	2690	2834	2952	3187	3310
Tri-Isle	5199	4492	4986	4882	4765	5148
Maui	4853	4217	4703	4590	4478	4752
Molokai	310	269	268	272	253	351
Lanai	36	6	15	20	34	45
CRITICAL CARE (CCU/ICU)						
Oahu w/o Tripler	-	6361	6358	4757	5522	5585
Hawaii	-	1284	1089	993	1085	1093
Kauai	-	447	394	111	631	698
Tri-Isle (Maui Only)	-	500	549	556	575	714
OBSTETRICS						
Oahu w/o Tripler	12975	12295	12799	12727	13203	14018
Hawaii	1796	1836	2025	2084	2079	2025
Kauai	895	1052	989	955	1033	1028
Tri-Isle	1251	1171	1222		1290	1419
Maui	1126	1065	1112		1182	1306
Molokai	114	104	102	113	105	100
Lanai	11	2	8	-	3	13
PEDIATRICS						
Oahu w/o Tripler	6901	5848	5707	6106	6357	5023
Hawaii	829	808	781	806	739	837
Kauai	486	390	314	347	361	341
Tri-Isle	394	379	419	442	456	463
Maui	336	325	374	398	452	414
Molokai	58	54	45	44	4	49
PSYCHIATRIC						
Oahu w/o Tripler	2224	2917	2641	2067	1738	2000
Hawaii	455	563	542	562	463	483
Kauai	113	148	132	200	188	220
Tri-Isle	276	259	161	140	182	176
Maui	263	252	150	133	174	-
Molokai	13	7	11	7	8	-

FOOTNOTES: [1]Oahu's data include Leahi's and Maunalani's fourth quarter only so the County's totals were inflated four times.

[2]Rates reflect bed changes at Maluhia and Kahanaola.

SHPDA: May 1984

FAMILY HEALTH SERVICES DIVISION

FAMILY HEALTH SERVICES DIVISION

Summary

The Family Health Services Division administers programs which are concerned with the provision and promotion of health services to women of childbearing age, infants, children and youth, and of community services for the developmentally disabled. These programs are carried out through the Maternal and Child Health Branch, which includes Family Planning, the Crippled Children Services Branch, the Community Services for the Developmentally Disabled Branch and the School Health Services Branch.

The Maternal and Child Health Branch divides its services into three sections: (1) family planning services, (2) maternal and infant services, and (3) children and youth services. The goal of the Maternal and Child Health (MCH) Branch is to assure that all women of childbearing age, infants and children in the State of Hawaii achieve and maintain optimal health. The Branch focuses on a variety of methods to achieve an integrated health delivery system of MCH services between both the public and private sectors. These methods include direct service provision, cooperative interagency agreements, purchase of service contracts, training others to provide the service, developing community resources, and coordinating existing community resources.

The Family Planning Services Section strives to provide individuals the freedom of choice to determine the number and spacing of their children. Its services also center around helping young people develop a responsible attitude about parenthood. The Office of Family Planning coordinates federal, state and private resources for statewide delivery of quality services, staff education and training, program planning, evaluation, and research. Family planning services were provided to 14,466 in fiscal year 1983. Services provided by project site are given in Table 1.

The Maternal and Infant Services Section administers the Maternity and Infant Care (MIC) Project which maintains two clinics centered in areas having a high prevalence of low-income families. These sites are Waimanalo on Oahu and Hilo on the Big Island of Hawaii. The clinics offer comprehensive maternity care including prenatal care, postpartum care, and family planning services. Comprehensive pediatric care is given to high-risk, low-income infants for their first year of life. The emphasis of the MIC clinics has been to develop effective programs in parent education, to serve young people as well as low-income families, and lower the incidence of low birth weight newborns in these high-risk populations. Table 2 summarizes the activities of the MIC Project clinics during calendar year 1983.

The Children and Youth Services Section includes the Children and Youth Project; the Child Health Conferences; the Early and Periodic Screening, Diagnosis and Treatment Program; and the Preschool Developmental Screening Program. The Children and Youth Project offers preventive case finding and diagnostic services to any child in Waimanalo younger than 16 years. For low-income children, it offers complete health care, including pediatric care, referral to specialists, hospitalization, dentistry, psychological services, speech services, as well as public health nursing, social casework, and nutrition services. A total of 2,064 infants and children were enrolled during the calendar year 1983. Table 3 indicates the number of patients served and the type of service received.

Child Health Conferences include medical well-baby clinics, nursing conferences, and pediatric evaluation clinics. Children from birth through 5 years of age may attend the clinics located throughout the State. Services include health assessment, immunization, childrearing guidance, nutrition counseling, preventive mental health, and referral to other agencies when needed. Child health conferences are supplemented by public health nursing services in the homes, day care centers, and at nursing stations. A total of 10,032 children were seen in the child health conferences in fiscal year 1983. Table 4 shows the attendance at child health conferences by age and by county for 1983.

The Early and Periodic Screening, Diagnosis and Treatment (EPSDT) Program conducted throughout the State is primarily for children 0-21 years of age receiving Medicaid. The screening includes physical and developmental screening, vision and hearing screening, urine screening, tests for anemia and tuberculosis, and immunizations. The staff screened 1,788 children during fiscal year 1983.

The Preschool Developmental Screening Program continued training and consultative services to interested preschool staff, public health nurses and other interested community providers so they may perform their own screening and refer to appropriate community resources for necessary follow up, including diagnostic evaluations for learning and/or developmental problems. This year, 3,310 screenings were administered by 192 trained persons: 2,005 of these were done by the 113 persons trained this reporting period. In addition, 552 screenings were done on neighbor islands which received direct services. The grand total is 3,862; the previous count was 1,237.

The Crippled Children Services Branch offers diagnostic evaluations by specialists to all children under the age of 21 years who are suspected of having one of the eligible medical conditions (Table 7). An individual treatment plan is formulated for each client by an interdisciplinary team of health professionals. If not financially eligible for further services, the client is referred for appropriate private care. Treatment services for those children who are financially eligible and have an eligible medical condition include medical and surgical treatment, hospitalization, occupational and physical therapy, speech therapy, orthodontic and dental treatment, social work and nursing services.

The medical eligible conditions include major birth defects (such as cleft lip and palate, congenital heart disease, orthopedic conditions and spina bifida), also severe asthma, rheumatic fever and rheumatic heart disease, surgically correctable eye conditions, hearing impairment and certain neurologic disorders. The branch also provides genetic counseling and diagnostic services through Kapiolani-Children's Medical Center.

The Community Services for the Developmentally Disabled Branch plans, organizes, coordinates, administers and evaluates community-based services to children and adults with developmental disabilities and their families. The continuum of services which is required to facilitate growth and development throughout life is provided by or contracted through the Department of Health. This service continuum begins with early identification, diagnostic and training services in infancy and extends through an array of adult activity programs and residential alternatives in the community.

The Child Study Section, through Child Development Clinics, provides early identification activities of Diagnostic and Evaluation services for children with developmental problems. The Child Development Clinic provides itinerant services to the islands of Hawaii, Kauai, Maui and Molokai several times a year. In addition, diagnostic services for children with complex or puzzling conditions are available through the Diagnostic Observation Center which provides a daily program in which the diagnostic evaluation process may take place for over an extended period.

A total of 281 comprehensive diagnostic evaluations were completed during the fiscal year of which 48 were provided via the neighbor island clinics.

The Community Program Section includes treatment/training programs for infants and young children with developmental disabilities and delays, who are at risk of mental retardation; residential services for the mentally retarded in the community; respite care and interdisciplinary support services to the case management system. These activities are carried by two units: the Infant and Child Development Centers and the Community Support Services Unit.

The Infant and Child Development Centers provide developmentally disabled or delayed infants and children a comprehensive individualized, developmental training program; families and caretakers are provided services to increase their knowledge, skills, attitudes and confidence needed to provide the optimum environment for their child. Six hundred and three children and their families received services during 1982-83; 311 were serviced in Department of Health programs; and 292 received service from private agencies through contracts with the Department.

The Community Support Services Unit provides direct services to developmentally disabled adults through an interdisciplinary team to maximize their potential, enhance their quality of life and sustain them in the community. The Unit is also responsible for developing community resources and providing training to community programs and caretakers. An array of support services are provided by the Unit staff and through contracted services such as therapeutic residential services. The Unit staff is responsible for developing standards, monitoring and evaluating the contracted services.

Placement and Continuing Services Section provided case management services to 895 developmentally disabled persons, who are all mentally retarded, at the end of the fiscal year 1983. Case management services provided by social workers involve acquiring and coordinating various community services and programs to sustain developmentally disabled persons in the community, ensuring their adjustments in living and training situations, advocating on their behalf, and continually assessing needs to promote their well-being. Case management services were provided to 613 mentally retarded persons on leave or conditionally released from Waimano Training School and Hospital and 282 community referred mentally retarded persons at risk for first time admissions to the institution. The Director of Health is guardian for 591 of the population on leave from Waimano.

At June 30, 1983, Waimano residents on leave decreased from the last report date from 619 to 613. The decrease is attributed in lower numbers of residents placed in the community and simultaneously affected by numbers returning to the institution, discharge, and deaths. There was an increase in community referred population at June 30, 1983, at 282 from 277 of the previous report date of which 60% of the increased number might have sought institutional care, but were sustained by various Program activities.

The Branch provides various activity programs to develop personal self-sufficiency, social and work related skills in developmentally disabled adults. These services include the Branch operations but are primarily contracted by the Branch. There was an increase in unduplicated numbers served in adult training programs at 852 from 754 of the previous year. Fifty-one persons were served in more than one program due to movements with the department sponsored programs, resulting in a total of 903 persons served in all the programs. While there was no increase in funding for existing contracted services, the increase was due to the addition of the day treatment program to the scheme of adult training programs and trainee movements within the outside of the department sponsored programs.

The Branch provides respite care services through its foster home operations and contractual services. There was an increase in numbers served in respite care programs at 372 from 360 of the previous year. The increase was due to the provider of services to use funding efficiently and/or supplemented the funding by charging fees.

Under delegated responsibility from Department of Social Services and Housing, this Section develops, recruits, licenses, trains and monitors foster homes to provide care for mentally retarded children in the community. As of June 30, 1983, there were 74 active foster homes. Of this total 18 are operated as group, therapy, teaching or respite homes by private agencies on contract with the Department; the remaining 56 are maintained by Placement and Continuing Services Section.

The School Health Services Branch is responsible for the planning, coordination, development and implementation of statewide school health programs. Services are provided through three sections: 1) School Health Services, 2) Diagnostic Services, and 3) School Health Support Services. The School Health Services Branch provides the leadership and direction needed for the delivery of cost-effective school health services for the more than 200,000 children in the schools in Hawaii. The School Health Services Section provides emergency health services for illness and injury, early identification of health conditions, preventive health care, and referral of problems to appropriate resources with follow up. The Diagnostic Services Section terminated its services at the end of fiscal year 1983, when this responsibility was assumed by the Department of Education. It consisted of a team of professional staff who evaluated children (3-10) who were suspected of having specific learning disabilities. The staff made diagnostic assessments (social, medical, speech-language, psychological education) and conducted team case conferences which included the parents and, whenever possible, the staff from responsible school. Arrangements were made for appropriate medical referral and follow up. The School Health Support Services Section continues to provide vision and hearing screening services for early identification of specific sensory deficits in order to prevent interference with learning and adjustment. In addition, the Support Services Section provides occupational and physical therapy evaluation, consultation and therapy services to the handicapped school population in accordance with PL 94-142. The tables relate to the activities of these programs.

TABLE 1

WOMEN RECEIVING FAMILY PLANNING SERVICES
IN PUBLICLY-SUBSIDIZED CLINICS IN HAWAII
DURING FISCAL YEAR 1983

Service Provider	Number of Clients New[a]	Number of Clients Total	Number of Client Visits
Hawaii Planned Parenthood	2,944	7,032	12,501
Kapiolani Hospital	605	1,600	3,948
University of Hawaii	457	1,316	2,959
Hale Ho'ola Hou	467	676	1,339
Kokua Kalihi Valley	120	169	301
Waikiki Health Center	494	916	1,050
Queen's Medical Center[b]	313	397	530
Molokai General Hospital	45	109	210
Department of Health Providers			
Rural Oahu Family Planning Project	899	1,610	3,358
Lanai Hospital[c]	17	22	35
Hilo Maternity and Infant Care Project	78	256	942
Waimanalo Maternity and Infant Care Project	94	363	777
STATE TOTAL	6,533	14,466	27,950

[a] Clients New to Provider Agency
[b] Six Months of Operation
[c] Eight Months of Operation

TABLE 2

NUMBER OF WOMEN AND INFANTS RECEIVING SERVICES
AT THE MATERNITY AND INFANT CARE PROJECT BY TYPE OF SERVICE
FOR PERIOD JANUARY 1, 1983 - DECEMBER 31, 1983
STATE OF HAWAII

Type of Service	Number of Women and Infants Receiving Services
Prenatal	227
Under 15 Years Old	0
15 Years	11
16 - 34 Years Old	215
35 Years and Over	1
Total Deliveries	162
Live Births Under 2501 Grams	12
Infants Admitted for High Risk Infant Care[a]	14
Family Planning Case Load	796[b]
New Admissions	274
Admissions Selecting Oral Contraceptives	180
Admissions Selecting Intrauterine Device	26

[a] High Risk: Having any prenatal, intrapartum, developmental or hereditary condition or other circumstance which increases the risk of survival and/or to normal development. Total number of new admissions.

[b] Caseload at the beginning of year = 522.

TABLE 3

WAIMANALO CHILDREN AND YOUTH PROJECT ACTIVITIES
STATE OF HAWAII, CALENDAR YEAR 1983

Type of Activity	No. of Encounters	No. of Children
Target of Population*	...	3,210
Total Number Enrolled Any Part of 1983	...	2,064
Current Enrollment, December 1983	...	1,784
New Enrollees in 1983	...	283
Moved Away	...	199
Became Over Aged (16 years old)	...	77
Deceased	...	2
Medical Services		
Episodic Care	3,853	...
Encounters (Health Assessments and Re-checks)	3,558	1,563
Public Health Nursing Services		
Home Visits	404	...
Hospital Visits	127	...
Speech and Hearing Services		
Screening	954	...
Therapy	265	...
Diagnostic	311	...
Dental Referrals	...	248

*Based on population data from U.S. Census 1980.

TABLE 4

INFANTS AND CHILDREN PROVIDED PUBLIC HEALTH NURSING SERVICES
IN CHILD HEALTH CONFERENCES
STATE OF HAWAII
FISCAL YEAR 1983

County	Infants Under 1 Year	Children Over 1 Year
STATE	2,339	7,693
*Honolulu County	1,372	4,424
Hawaii County	490	1,618
Maui County	353	1,188
Kauai County	124	463

*Honolulu County breakdown between "under 1 year" and "1 year and over" is an approximation due to unavailability of breakdown information from Central and Kapahulu centers.

TABLE 5

DISTRIBUTION OF CHILDREN RECEIVING
SERVICES BY STATUS AND AGE
CRIPPLED CHILDREN SERVICES BRANCH
(unduplicated count)
STATE OF HAWAII, DEPARTMENT OF HEALTH
FISCAL YEAR 1982-83

				AGE OF CHILD IN YEARS						
ISLAND	TOTAL	NEW	OLD	Under 1	1-4	5-9	10-14	15-17	18-20	21
MAUI	263	71	192	24	44	73	72	30	18	2
	12.82%	10.40%	14.02%	13.26%	9.50%	14.34%	15.55%	12.30%	10.98%	7.14%
KAUAI	115	22	93	6	29	33	21	16	9	1
	5.60%	3.22%	6.79%	3.31%	6.26%	6.48%	4.54%	6.56%	5.49%	3.57%
OAHU	1113	404	709	117	263	248	234	132	102	17
	54.24%	59.1[illegible]%	51.79%	64.64%	56.80%	48.72%	50.54%	54.10%	62.20%	60.71%
HAWAII	561	186	375	34	127	155	136	66	35	8
	27.34%	27.23%	27.39%	18.78%	27.43%	30.45%	29.37%	27.05%	21.34%	28.57%
TOTAL	2052	683	1369	181	463	509	463	244	164	28

TABLE 6

STAFF SERVICES PROVIDED BY
CRIPPLED CHILDREN SERVICES BRANCH STAFF
BY TYPE OF SERVICE
(duplicated count)
STATE OF HAWAII, DEPARTMENT OF HEALTH
FISCAL YEAR 1982-83

TYPE	TOTAL CASES	SERVICE UNITS
Clinic	1,287	5,043
Staff Services		
Occupational Therapy	64	4,999
Physical Therapy	75	8,056
Speech/Hearing	969	4,282
Social Work	80	8,394
Public Health Nurse	1,909	4,991
Total Staff Services	3,097	30,722
Total All Services	4,384	35,765

Numbers include Jefferson and Campbell Orthopedic Units.
Staff services include purchased services.

TABLE 7

DISTRIBUTION OF PRIMARY MEDICAL CONDITIONS AMONG CHILDREN RECEIVING CRIPPLED CHILDREN SERVICES BY DIAGNOSTIC GROUP AND AGE OF CHILD
(unduplicated count)
STATE OF HAWAII, DEPARTMENT OF HEALTH
FISCAL YEAR 1982-83

		TYPE OF CASE		AGE OF CHILD IN YEARS						
DIAGNOSTIC GROUP	TOTAL	NEW	OLD	UNDER 1	1-4	5-9	10-14	15-17	18-20	21
TOTAL	2660	881	1779	240	622	650	611	302	204	31
CARDIAC DISORDERS										
Rheumatic Fever	152	46	106	2	3	26	58	37	24	2
Rheumatic Heart Disease	139	28	111	0	5	11	53	30	35	5
Malf. Great Vessels	99	30	69	11	20	20	20	19	7	2
Congenital Heart	338	121	217	67	88	65	51	38	26	3
Other	115	66	49	16	40	31	9	14	5	0
CRANIO-FACIAL ANOMALIES										
Craniostenosis	8	5	3	2	1	1	2	1	1	0
Cleft lip/palate	157	37	120	16	53	34	34	11	8	1
COMMUNICATION DISORDERS										
Non-organic Speech Defects	95	56	39	1	63	29	2	0	0	0
Organic Speech Defects	116	28	88	4	47	34	20	8	2	1
Conductive Impairment	63	33	30	1	19	14	14	2	3	0
Sensorineural	147	44	103	1	31	41	43	22	8	1
Other	10	0	10	0	1	4	2	1	1	1
EAR DISORDERS										
Otitis Media	176	48	128	1	32	66	56	10	9	2
Other	8	1	7	0	0	0	5	2	0	1
GENETIC/CONGENITAL DISORDERS										
G. U.	21	12	9	10	5	4	2	0	0	0
Congenital Malformation of the Ear	9	2	7	1	3	0	5	0	0	0
G. I.	26	17	9	10	5	7	4	0	0	0
Other congenital	90	48	42	34	31	9	11	2	3	0
Inborn Errors	6	3	3	1	2	2	0	0	1	0
NEUROLOGICAL/NEUROMUSCULAR										
Seizure Disorders	130	28	102	7	13	36	33	18	19	4
Cerebral Palsy	131	23	108	0	28	45	38	10	8	2
Myelodysplasia	83	23	60	12	20	17	10	10	12	2
Muscular Dystrophy	9	1	8	0	0	4	2	2	1	0
Congenital Hydrocephalus	17	9	8	6	4	3	2	2	0	0
All other disease of the Nervous System	16	4	12	2	2	8	1	0	3	0
ORTHOPEDIC DISORDERS										
Bone Disease	1	0	1	0	0	0	0	1	0	0
Scoliosis	73	29	44	1	4	2	43	19	3	1
Congenital Limb Malformation	13	2	11	0	2	3	4	1	3	0
Club Foot	49	7	42	4	13	18	9	3	2	0
Congenital Dislocation of the Hip	10	2	8	1	2	2	4	1	0	0
Polio	7	3	4	1	0	0	3	2	1	0
All other	48	7	41	2	10	12	13	6	4	1
PULMONARY DISORDERS										
Asthma	92	43	49	5	21	31	24	7	4	0
Cystic Fibrosis	5	2	3	0	1	2	1	0	1	0
Other Respiratory Disorders	4	1	3	0	2	1	0	0	0	1
RHEUMATOID ARTHRITIS	15	6	9	1	1	4	4	3	2	0
VISUAL DISORDERS										
Strabismus	23	10	13	2	12	8	0	0	1	0
Other	53	15	38	6	21	12	10	2	2	0
Blindness	2	0	2	0	0	1	1	0	0	0
Cataract	2	1	1	1	0	0	0	1	0	0
MISCELLANEOUS										
Mental Retardation	16	2	14	1	1	7	2	4	1	0
Deferred diagnosis	31	21	10	7	10	8	4	2	0	0
Burns	4	1	3	0	0	2	0	2	0	0
Perinatal Complications	2	2	0	0	2	0	0	0	0	0
No abnormalities	11	8	3	1	2	5	2	0	1	0
Blood Disorders	6	2	4	1	1	2	1	1	0	0
Learning Disability	2	0	2	0	0	2	0	0	0	0
Other	22	3	19	1	1	5	5	8	2	0
Accidents	8	1	7	0	0	2	4	0	1	1

TABLE 8

INFANT & CHILD DEVELOPMENT SERVICES PROVIDED

BY NUMBER OF CHILDREN SERVED AND GEOGRAPHIC AREA COVERED

STATE OF HAWAII, FISCAL YEAR 1982-83

NAME OF PROGRAM	GEOGRAPHIC AREA SERVED	NO. SERVED
Private Agencies		
Society for Crippled Children & Adults of Maui County	Maui/Molokai	107
Easter Seal Society of Hawaii, Inc.		
Kauai	Kauai	21
Hawaii	Hilo and outlying areas, Pahoa to Waimea	66
Oahu	Hawaii Kai to Liliha Street	66
Waianae Coast Day Care Center, Inc.	Waianae, Oahu	30
Sub-total Private Agencies		290
Department of Health		
Kona Infant Development Program	Kona Coast	44
Lanakila Infant Development Program	Kalihi/Palama	58
Leeward Infant & Child Development	Makakilo, Halawa Heights, Aiea, Hickam, Pearl City, Ewa, Waipahu	79
Wahiawa Infant & Child Development Program	Wahiawa, Haleiwa, Waialua, Mililani, Sunset Beach	76
Windward Infant & Child Development Program	Windward Coast Waimanalo to Kahuku	54
Sub-total DOH		311
Total Children Served		601

TABLE 9

NUMBER OF MENTALLY RETARDED IN CASE MANAGEMENT SERVICES

STATE OF HAWAII, FISCAL YEAR 1983

Total	895
Leave Population	613
Community Referred Population	282

TABLE 10

STATISTICAL MOVEMENT OF RESIDENTS FROM WAIMANO TRAINING SCHOOL AND HOSPITAL

STATE OF HAWAII, FISCAL YEAR 1983

Residents on Leave at Start of Year	621
Community Placements	34
Discharge While on Leave	13
Deaths on Leave	8
Returns from Community Placement	21
Residents on Leave at End of Year	613

TABLE 11

LEAVE POPULATION, WAIMANO, JUNE 30, BY MEASURED INTELLIGENCE

STATE OF HAWAII, FISCAL YEAR 1982

Measured Intelligence	Leave Population on June 30
Total	613
I. Mild	135
II. Moderate	184
III. Severe	172
IV. Profound	119
Borderline	2
Undetermined Intelligence	1

TABLE 12

ACTIVITY PROGRAMS

STATE OF HAWAII, FISCAL YEAR 1982

Area	Type of Program	Numbers Served
	Total	903
Oahu	Day Treatment	19
	Leisure Activity	63
	Day Activity	188
	Pre-Vocational	233
	Work Activity	134
Hawaii	Day Activity	46
	Pre-Vocational	17
	Work Activity	81
Maui	Day Activity	50
	Pre-Vocational	14
	Work Activity	0
Kauai	Day Activity	38
	Pre-Vocational	0
	Work Activity	20

NOTE: Numbers include DOH operations and contracted programs. Fifty-one persons were served at different program levels for the fiscal year.

TABLE 13

RESPITE CARE PROGRAMS

NUMBERS SERVED AND GEOGRAPHIC AREAS COVERED

STATE OF HAWAII, FISCAL YEAR 1982

Agency	Area	Numbers Served
	Total	372
DOH	Oahu	15
Easter Seal Society	Oahu	235
ARC, Hilo	Hawaii	47
ARC, Maui	Maui	35
ARC, Kauai	Kauai	40

TABLE 14

TOTAL NUMBERS OF HEALTH ROOM VISITS, a/

REASONS FOR VISIT AND DISPOSITION

School Health Services Branch

Department of Health

State of Hawaii

By School Year From 1978-79 Through 1982-83

	1978-79	1979-80	1980-81	1981-82	1982-83
Total visits to health room	550,299	500,437	528,146	550,837	550,661
Reason for visit: b/ (Students Only)	(42.02)	(42.20)	(43.88)	(45.68)	(44.26)
Illness	231,229	211,204	231,748	251,618	243,712
	(42.96)	(42.88)	(44.83)	(39.53)	(39.72)
Injury	236,401	214,600	236,751	217,746	218,723
	(5.43)	(5.35)	(2.33)	(5.22)	(6.15)
Medication	29,880	26,791	12,294	28,729	33,854
	(1.39)	(1.38)	(2.46)	(3.57)	(4.45)
TLC	6,659	6,917	13,007	19,677	24,511
	(7.96)	(7.95)	(6.28)	(5.82)	(5.25)
Non-health	43,806	39,790	33,163	32,085	28,909
Disposition: (Students and Staff)	(18.71)	(18.39)	(19.06)	(20.89)	(19.86)
Sent home	102,947	92,013	100,666	115,088	109,367
	(79.31)	(79.92)	(79.16)	(77.25)	(78.31)
Returned to class	436,436	399,957	418,067	425,496	431,241
	(1.98)	(1.69)	(1.78)	(1.86)	(1.83)
Remained in health room	10,916	8,467	9,413	10,253	10,053

Total health room visits include students and staff.

a/ Numbers are approximate.

b/ Numbers in parenthesis represent percentages of annual health room visits.

TABLE 15
REQUESTS FOR ADMINISTRATION OF MEDICATION
BY STUDENT AND CONDITION
School Health Services Branch
Department of Health
State of Hawaii
1982-83

District	Number of Students a/	Conditions c/	No.	No. of Medications c/ PRN	SCHEDULED	STORAGE
Honolulu	20	Allergy	78	71	5	8
Windward	23					
Central	10					
Leeward	9					
Hawaii	2					
Maui b/	13					
Kauai	-					
Honolulu	13	Asthma	72	44	28	8
Windward	15					
Central	19					
Leeward	9					
Hawaii	5					
Maui b/	4					
Kauai	-					
Honolulu	1	Headache, Migraine	7	9	1	-
Windward	1					
Central	2					
Leeward	2					
Hawaii	1					
Maui b/	-					
Kauai	-					
Honolulu	40	Hyperactivity	244	2	242	4
Windward	54					
Central	75					
Leeward	57					
Hawaii	9					
Maui b/	7					
Kauai	-					
Honolulu	8	Seizures	28	4	32	-
Windward	3					
Central	4					
Leeward	5					
Hawaii	4					
Maui b/	2					
Kauai	2					
Honolulu	6	Other	33	8	24	3
Windward	20					
Central	2					
Leeward	5					
Hawaii	5					
Maui b/	2					
Kauai	-					
TOTAL	449		458	138	332	23

a/A students is counted only once in whichever diagnostic category that is listed first.
b/Maui includes the islands of Maui, Molokai and Lanai
c/A student may have more than one medication and condition.

TABLE 16
HEALTH PROBLEM SUMMARY LIST a/
School Health Services Branch
Department of Health
State of Hawaii
1982-1983

CONDITION	DISTRICT							TOTAL
	Honolulu	Windward	Central	Leeward	Hawaii	Maui	Kauai	
Allergies	1,300	1,153	2,023	1,467	1,408	496	218	8,065
Asthma	905	870	1,468	1,184	1,281	423	521	6,652
Blood	52	9	46	25	5	13	4	154
Cardiac	147	67	106	71	105	70	40	606
Collagen Diseases	13	6	26	30	21	1	1	98
Digestive/Gastro Intestinal	32	17	26	17	28	3	9	132
Diabetes	22	22	32	14	16	8	4	118
Other Meta.& Endo. Disorders	28	22	29	19	21	14	0	133
Ear Problems	734	565	571	652	539	335	135	3,531
Eye Problem	212	232	591	330	384	106	109	1,964
Hyperactivity	57	57	132	59	17	14	5	341
Hypertension	5	3	21	15	6	4	5	59
Kidney & Genito Urinary	36	30	73	46	28	19	11	243
Musculo Skeletal	368	229	415	165	297	123	28	1,625
Neoplasm	9	5	21	5	7	5	1	53
Seizures	179	91	163	146	88	55	39	761
Other Neurological Disorders	72	64	114	80	41	25	40	436
Other	58	53	78	114	58	3	4	368
TOTALS	4,229	3,495	5,935	4,439	4,350	1,717	1,174	25,339

a/ Numbers are approximate.

TABLE 17
NUMBER OF CASES REFERRED TO SCHOOL NURSES
School Health Services Branch
Department of Health
State of Hawaii
1982-1983

ISLAND	Elementary	Intermediate	High School	TOTAL
Oahu	3,671	905	934	5,510
Hawaii	215	49	84	348
Maui a/	441	101	125	667
Kauai	225	28	245	498
TOTAL	4,552	1,083	1,388	7,023

a/ Maui includes the islands of Maui, Molokai and Lanai.

TABLE 18
VISION STATISTICS
School Health Services Branch
Department of Health, State of Hawaii
1982-83

Type of School	Total Number Screened	Number Referred	% Ref.	No. of Completed Referrals	% Comp. Ref.	No. New Deficit Findings	% New Def. Find.	% Def. Find. of. No. Screen.	No. New Glasses Prescribed	% New Glasses	% New Glass of No. Screen	% Over. Ref.
Preschools	7,793	96	1	69	72	50	72	.6	13	26	.2	28
Priv./Paroch. Schools	2,616	77	3	40	52	33	83	1.3	23	70	.9	15
Public Schools a/	109,199	2,812	3	1,947	69	1,710	88	1.6	1,159	68	1.1	8
Oahu	80,633	2,101	3	1,505	72	1,351	90	1.7	923	68	1.1	3
Hawaii	13,671	382	3	267	70	209	78	1.5	139	67	1.0	16
Maui	9,498	259	3	124	48	104	84	1.1	69	66	.7	16
Kauai	5,397	70	1	51	73	46	90	.9	28	61	.5	1
Total	119,608	2,985	3	2,056	69	1,793	87	1.5	1,195	67	1.0	9

a/ Department of Education

TABLE 19
HEARING STATISTICS
School Health Services Branch
Department of Health, State of Hawaii
1982-83

Type of School	Total Number Screened	Number Referred	% Referred	No. of Completed Referrals	% Comp. Ref.	Number Deficit Finding	% Def. Find.	% Def. Find. of Number Screened	% Over Ref.
Preschools	6,303	209	3	112	54	105	94	1.6	6
Private/Parochial Schools	9,315	140	2	78	56	71	91	.8	9
Public Schools a/	64,649	1,811	3	841	46	782	93	1.2	7
Oahu	47,838	1,261	3	535	42	490	92	1.0	8
Hawaii	8,031	313	4	179	57	171	96	2.1	4
Maui	5,589	153	3	74	48	73	99	1.3	1
Kauai	3,191	84	3	53	63	48	91	1.5	9
Total	80,467	2,160	3	1,031	48	958	93	1.2	7

a/ Department of Education

TABLE 20
NUMBER OF STUDENTS RECEIVING OCCUPATIONAL THERAPY SERVICES
BY CATEGORY AND DISTRICT, FISCAL YEAR 1982-83
School Health Services Branch
Department of Health, State of Hawaii

Category	DISTRICTS							Total
	Honolulu	Windward	Central	Leeward	Hawaii	Maui	Kauai	
Multiply Handicapped	0	0	1	3	0	0	0	4
Severely Multiply Handicapped	20	15	21	16	19	19	11	121
Learning Disabled	88	106	78	50	31	10	23	386
Educ. Ment. Retarded	35	18	20	16	12	5	7	113
Train. Ment. Retarded	28	15	10	16	15	4	4	92
Sev. Ment. Retarded	15	3	2	1	2	0	1	24
Ortho. Handicapped	10	13	8	6	15	3	7	62
Deaf/Blind	4	0	2	0	0	0	0	6
Ser. Emot. Disturbed	5	4	4	3	1	0	1	18
Visually Impaired	5	1	0	1	0	0	0	7
Hearing Impaired	4	0	1	0	1	1	3	10
Learning Impaired	26	10	19	8	8	7	7	85
Others	27	24	39	33	15	8	13	159
Total	267	209	205	153	119	57	77	1087

TABLE 21
NUMBER OF STUDENTS RECEIVING PHYSICAL THERAPY SERVICES
BY CATEGORY AND DISTRICT, FISCAL YEAR 1982-83
School Health Services Branch
Department of Health, State of Hawaii

Category	DISTRICTS							Total
	Honolulu	Windward	Central	Leeward	Hawaii	Maui	Kauai	
Multiply Handicapped	0	0	0	0	0	0	0	0
Severely Multiply Handicapped	33	18	23	36	18	20	12	160
Learning Disabled	30	19	23	18	5	3	31	129
Educ. Ment. Retarded	12	2	7	12	6	4	4	47
Train. Ment. Retarded	17	5	23	12	14	6	3	80
Sev. Ment. Retarded	7	0	4	2	2	0	0	15
Ortho. Handicapped	19	18	20	4	39	7	10	117
Deaf/Blind	5	0	2	0	0	0	0	7
Ser. Emot. Disturbed	2	0	1	0	1	0	0	4
Visually Impaired	6	0	2	0	2	0	2	12
Hearing Impaired	5	1	0	3	0	0	2	11
Learning Impaired	22	1	20	2	5	10	8	68
Others	0	0	0	1	0	0	0	1
Total	158	64	125	90	92	50	72	651

TABLE 22
REFERRAL SOURCE & FOLLOW-UP RECOMMENDATIONS OF CHILDREN EVALUATED FOR LEARNING DISABILITY
Diagnostic Services Section, School Health Branch
Department of Health, State of Hawaii
July 1982-June 1983

REFERRAL SOURCE	LDC a/	Other DOE SpEd b/	Reten-tion	Specl Schl Plcmt c/	Coun-seling	SpLa Thpy	Re-eval	Reg Plcmt	Reg Plcmt w/Help d/	Pre-schl	Other e/	Total	Not Tstd	Ttl. Rfrd
DOE														
Honolulu	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Leeward	1	-	-	-	-	-	-	-	-	-	-	1	-	1
Windward	4	1	1	-	-	-	-	1	1	-	1M	9	-	9
Private School	4	-	1	2	4	2	-	3	24	-	-	40	-	40
Physician	-	2	-	-	3	3	-	-	7	-	-	15	-	15
Oahu Preschool	8	4	1	2	4	2	-	1	5	-	-	27	-	27
Parents	7	1	3	4	5	-	-	8	21	3	1	53	4	57
DOH	-	2	1	-	-	-	-	-	-	2	-	5	-	5
Other	3	-	-	-	-	1	1	-	1	-	-	6	1	7
Subtotal	27	10	7	8	16	8	1	13	59	5	2	156	5	161
Re-eval	-	-	-	-	-	1	-	-	-	-	-	1	-	1
TOTAL	27	10	7	8	16	9	1	13	59	5	2	157	5	162

a/ Learning Disability Class
b/ Includes MRE, MRT, Learning Impaired, Gifted, Emotionally Handicapped
c/ Includes Variety Club School, ASSETS, Fairhaven, SECO, etc.
d/ Tutorial, remedial help
e/ Includes medication, further evaluation

M - Medication

TABLE 23
REFERRAL SOURCE & FOLLOW-UP RECOMMENDATIONS OF CHILDREN EVALUATED FOR LEARNING DISABILITY
Diagnostic Services Section, School Health Branch
Department of Health, State of Hawaii
July 1982 - June 1983

CURRENT PLACEMENT	PRIMARY RECOMMENDATIONS													
	LDC[a]	Other DOE SpEd[b]	Reten-tion	Specl Schl Plcmt[c]	Coun-seling	SpLa Thpy	Re-eval	Reg Plcmt	Reg Plcmt w/Help[d]	Pre-schl	Other[e]	Total	Not Tstd	Ttl Rfrd
Private School	8	1	3	5	9	4	-	8	47	-	2	87	3	90
Pre-school	8	6	2	3	4	5	-	2	5	4	-	39	-	39
DOE	10	2	2	-	3	-	1	2	6	-	-	26	1	27
Other	1	1	-	-	-	-	-	1	1	1	-	5	1	6
Total	27	10	7	8	16	9	1	13	59	5	2	157	5	162

CURRENT PLACEMENT	SECONDARY RECOMMENDATIONS													
	LDC[a]	Other DOE SpEd[b]	Reten-tion	Specl Schl Plcmt[c]	Coun-seling	SpLa Thpy	Re-eval	Reg Plcmt	Reg Plcmt w/Help[d]	Pre-schl	Other[e]	Total	Not Tstd	Ttl Rfrd
Private School	-	-	-	-	5	2	5	-	1	-	4	17	-	17
Pre-school	-	-	-	-	2	4	9	-	-	-	1	16	-	16
DOE	-	-	2	-	3	1	-	1	-	-	3	10	-	10
Other	-	-	-	-	1	-	-	-	-	-	-	1	-	1
Total	-	-	2	-	11	7	14	1	1	-	8	44	-	44

a/ Learning Disability Class
b/ Includes MRE, MRT, Learning Impaired, Gifted, Emotionally Handicapped
c/ Includes Variety Club School, ASSETS, Fairhaven, SECO, etc.
d/ Tutorial, remedial help
e/ Includes medication, further evaluation

COMMUNICABLE DISEASE DIVISION

SUMMARY

There were 2,886 gonorrhea cases reported for calendar year 1983. This is the fourth consecutive year Hawaii has recorded a decrease in the total number of gonorrhea cases reported. The gonorrhea case rate of 282.1 cases per 100,000 population is the lowest case rate reported since 1972. The decrease in gonorrhea cases occurred in all age groups. However, Table 8, which reflects the number of gonorrhea cases by sex shows the greatest decrease occurred in males. This is the second consecutive year the number of male gonorrhea cases has decreased. This decrease seems to suggest a decrease in the male homosexual gonorrhea cases.

There were 93 Penicillinase-producing *Neisseria gonorrhoeae* (PPNG) reported in 1983. The number of penicillin-resistant gonorrhea seems to have leveled off at just under a hundred cases per year. Almost all of these cases were either directly imported from the far east or were epidemiologically linked to the far east, indicating no endemic spread of PPNG in Hawaii.

Although there were a slight decrease in the number of early infectious syphilis cases (Table 9) in 1983, the total number of early syphilis cases fluctuates between one to two hundred cases per year with 90% of the cases occurring in males.

Vaccine-preventable diseases such as pertussis, measles and rubella decreased in 1983. Pertussis decreased from 28 cases in 1982 to 3 cases in 1983. Only 1 case of measles and rubella were reported in 1983. Influenza cases increased from 222 cases in 1982 to 494 in 1983. Both influenza A and B were seen in 1983.

Most of the reported zoonotic diseases occurred either on Hawaii or Maui. Thirteen of the 16 cases of leptospirosis occurred on Hawaii. Thirteen of the 15 cases of murine typhus were reported from Maui County. Salmonellosis decreased from 570 cases in 1982 to 335 cases in 1983.

Incidence of aseptic meningitis increased by 7% from 230 cases in 1982 to 247 cases in 1983. Echovirus type 24 were isolated from 2 CSF specimens submitted to the State Health Laboratory. Bacterial meningitis cases increased from 51 to 69 cases. Forty cases (60%) were due to Hemophilus influenza. Seven cases of meningococcal meningitis were reported in 1983 including 1 death.

TABLE 1
NUMBER OF CASES AND DEATHS FROM COMMUNICABLE DISEASES
STATE OF HAWAII, 1979, 1980, 1981, 1982, and 1983

Disease	1979		1980		1981		1982		1983	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Total	11,957	30	12,270	30	11,438	19	10,310	18	11,299	14
Amebiasis	27	-	16	-	29	-	33	-	18	-
Brucellosis	-	-	-	-	-	-	-	-	-	-
Chancroid	-	-	-	-	2	-	1	-	-	-
Chickenpox	835	2	926	-	809	-	820	-	1,442	-
Conjunctivitis, infectious	28	-	50	-	15	1	217	-	56	-
Diphtheria	-	-	-	-	-	-	-	-	-	-
Encephalitis, primary & post-infectious	21	-	22	-	7	-	20	-	11	-
Gonorrhea	4,373	-	4,383	-	4,289	-	3,706	-	2,886	-
Hansen's Disease a/	33	1	34	-	49	2	59	1	46	-
Hepatitis A	123	-	84	-	124	-	81	-	55	-
Hepatitis B	93	1	119	7	95	2	87	3	73	1
Hepatitis Non-A, Non-B	-	-	-	-	-	-	9	-	15	-
Hepatitis unspecified	26	-	29	1	28	-	10	2	10	-
Hookworm disease	145	-	132	-	99	-	91	-	69	-
Influenza	464	6	118	2	96	1	222	-	494	1
Leptospirosis	17	-	27	-	26	-	29	-	16	-
Lymphogranuloma venereum	-	-	-	-	1	-	-	-	-	-
Malaria b/	6	-	29	-	11	-	7	-	2	-
Measles (Rubeola)	68	-	6	-	7	-	6	-	2	-
Meningitis, aseptic & viral	115	-	145	-	184	-	230	2	253	-
Meningitis, bacterial (All types) c/	26	4	49	5	41	3	51	3	66	2
Meningitis, meningococcal	(9)	(1)	(1)	-	(4)	-	(5)	(1)	(5)	-
Meningitis, unspecified	-	2	1	1	-	3	-	-	-	-
Mononucleosis, infectious	44	-	49	-	66	-	44	-	65	-
Mumps	117	-	24	-	26	-	21	-	20	-
Pertussis (Whooping cough)	10	-	-	-	3	-	28	-	3	-
Poliomyelitis	-	-	-	-	-	-	-	-	-	-
Rubella	16	-	5	-	15	-	9	-	1	-
Rubella, congenital	1	-	-	-	-	-	-	-	-	-
Salmonellosis	406	-	405	-	513	-	499	1	335	-
Scarlet fever & other strep infections	4,348	-	5,102	-	4,348	-	3,474	-	4,814	-
Shigellosis	98	-	156	-	214	-	95	-	134	-
Syphilis, primary & secondary	106	-	131	-	75	-	120	-	99	-
Syphilis, early latent	69	-	74	-	47	-	66	-	47	-
Syphilis, late & late latent	21	-	20	-	19	-	5	-	13	-
Tetanus	-	-	-	-	-	-	-	-	-	-
Trichinosis	-	-	-	-	-	-	5	-	1	-
Tuberculosis	311	14	127	14	197	7	252	6	236	10
Typhoid fever	7	-	4	-	2	-	4	-	4	-
Typhus fever, endemic	3	-	3	-	1	-	9	-	13	-

a/ Includes reinstated cases
b/ Malaria acquired outside the State
c/ Includes meningitis, meningococcal

TABLE 2

SELECTED COMMUNICABLE DISEASE RATES PER 100,000 POPULATION
IN STATE OF HAWAII 1979-1983

Year	1979	1980	1981	1982	1983
Population	914,700	972,600	981,000	994,000	1,023,200
	Rates Per 100,000 Population				
All Communicable Diseases	1,307	1,262	1,166	1,037	1,104
Gonorrhea	478	450	437	373	282
Communicable Disease (Exclusive of Venereal Disease)	808	788	714	645	807
Scarlet Fever & Other Strep Infections	475	525	443	350	471
Influenza	51	12	10	22	48
Chickenpox	91	95	82	83	141
Mumps	13	3	3	2	2
Rubella	2	1	2	1	0
Measles (Rubeola)	7	1	1	1	0

TABLE 3
COMMUNICABLE DISEASE REPORT BY GEOGRAPHIC AREAS
STATE OF HAWAII, 1983

Disease	State		TOTAL CASES a/						Military Active Duty
	Number	Rate b/	Hawaii	Oahu	Kauai	Lanai	Maui	Molokai	
Total	11,299	1,104.3	1,723	8,908	399	25	235	9	757
Amebiasis	18	1.8	1	12	-	-	5	-	2
Brucellosis	-	-	-	-	-	-	-	-	-
Chancroid	-	-	-	-	-	-	-	-	-
Chickenpox	1,442	140.9	337	849	168	4	84	-	10
Conjunctivitis, infec.	56	5.5	3	53	-	-	-	-	-
Diphtheria	-	-	-	-	-	-	-	-	-
Encephalitis, primary & post-infectious	11	1.1	3	7	1	-	-	-	-
Gonorrhea	2,886	282.0	54	2,746	19	-	66	1	658 c/
Hansen's Disease d/	46	4.5	4	39	1	-	-	2	-
Hepatitis A	55	5.4	3	42	-	-	10	-	12
Hepatitis B	73	7.1	10	55	3	-	5	-	7
Hepatitis Non-A, Non-B	15	1.5	1	10	-	-	4	-	1
Hepatitis Unspecified	10	1.0	-	8	-	-	1	1	6
Hookworm disease	69	6.7	2	66	1	-	-	-	-
Influenza	494	48.3	293	201	-	-	-	-	1
Leptospirosis	16	1.5	13	2	1	-	-	-	-
Lymphogranuloma venereum	-	-	-	-	-	-	-	-	-
Malaria (All imported)	2	0.2	-	2	-	-	-	-	2
Measles (Rubeola)	2	0.2	-	2	-	-	-	-	-
Meningitis, aseptic & viral	253	24.7	32	203	17	-	-	1	12
Meningitis, bacterial (All types) e/	66	6.4	8	51	5	-	-	2	1
Meningitis, meningo.	(5)	(0.5)	(2)	(2)	(1)	-	-	-	-
Meningitis, unspec.	-	-	-	-	-	-	-	-	-
Mononucleosis, infec.	65	6.3	12	53	-	-	-	-	15
Mumps	20	2.0	6	9	1	2	2	-	2
Pertussis (Whooping cough)	3	0.3	-	3	-	-	-	-	-
Poliomyelitis	-	-	-	-	-	-	-	-	-
Rubella	1	0.1	-	1	-	-	-	-	-
Rubella, congenital	-	-	-	-	-	-	-	-	-
Salmonellosis	335	32.7	29	281	13	-	12	-	-
Scarlet fever & other streptococcal infec.	4,814	470.5	892	3,730	158	19	15	-	-
Shigellosis	134	13.1	4	128	-	-	2	-	-
Syphilis, primary & secondary	99	9.7	1	97	1	-	-	-	16 c/
Syphilis, early latent	47	4.6	-	47	-	-	-	-	5 c/
Syphilis, late & late latent	13	1.3	-	13	-	-	-	-	7 c/
Tetanus	-	-	-	-	-	-	-	-	-
Trichinosis	1	0.1	1	-	-	-	-	-	-
Tuberculosis	236	23.1	14	195	9	-	17	1	-
Typhoid fever	4	0.4	-	3	1	-	-	-	-
Typhus fever, endemic	13	1.3	-	-	-	-	12	1	-

a/ Resident cases (includes military on active duty)
b/ Number per 100,000 total population (1,023,200)
c/ Reported cases by military facilities
d/ Includes reinstated cases
e/ Includes meningitis, meningococcal

TABLE 4

VENEREAL DISEASE CASES REPORTED TO THE DEPARTMENT OF HEALTH BY DIAGNOSIS AND SOURCE OF REPORT
STATE OF HAWAII, 1983

Type of Disease		Total	Private Physicians, Hospitals and Institutions	Public Clinics, Hospitals and Institutions	Military
Total Cases	Number	3,046	1,072	1,287	687
	Percent	100	35	42	23
Syphilis:					
Primary and Secondary		99	39	44	16
Early Latent		47	19	23	5
Late and Late Latent		13	4	2	7
Gonorrhea		2,886	1,010	1,218	658
Other Venereal Diseases		1	-	-	1

TABLE 5

TOTAL PRIMARY AND SECONDARY SYPHILIS CASES BY AGE
STATE OF HAWAII 1978 - 1983

Age in Years	1978	1979	1980	1981	1982	1983
Total All Ages	51	106	131	75	120	99
0 - 14	-	-	-	1	-	-
15 - 19	3	7	8	2	4	4
20 - 24	14	26	25	14	31	37
25 - 29	11	20	32	14	30	17
30 - 34	7	23	18	17	18	19
35 - 39	8	11	17	11	18	7
40 - 44	5	13	14	4	8	7
45 - 49	1	5	6	8	4	3
50 and Over	-	1	8	4	6	3
Unknown	2	-	3	-	1	2

TABLE 6

TOTAL GONORRHEA CASES BY AGE
STATE OF HAWAII 1978 - 1983

Age in Years	1978	1979	1980	1981	1982	1983
Total All Ages	3,409	4,373	4,383	4,289	3,706	2,886
0 - 14	11	18	18	7	13	9
15 - 19	510	711	620	548	472	359
20 - 24	1,269	1,714	1,758	1,761	1,441	1,056
25 - 29	737	908	870	892	808	649
30 - 34	386	438	436	508	448	351
35 - 39	172	206	210	208	186	143
40 - 44	90	98	99	103	102	64
45 - 49	32	46	58	51	37	37
50 and Over	55	52	58	54	47	37
Unknown	147	182	256	157	152	181

TABLE 7

NUMBER AND RATE PER 100,000 POPULATION OF TOTAL REPORTED GONORRHEA CASES
STATE OF HAWAII, 1969 - 1983

YEAR	15 - 19 YEARS			20 - 24 YEARS			25 - 29 YEARS			ALL AGES		
	CASES	POPULATION 1/	RATE	CASES	POPULATION 1/	RATE	CASES	POPULATION 1/	RATE	CASES	POPULATION 1/	RATE
1969	147	69,797	210.6	480	78,120	614.4	176	57,649	305.3	996	750,228	132.8
1970	264	72,278	365.3	712	82,029	868.0	223	49,819	447.6	1,494	773,212	193.2
1971	383	74,380	514.9	888	84,435	1,051.7	326	61,559	529.6	1,975	795,702	248.2
1972	365	76,293	478.4	925	86,604	1,068.1	363	63,141	574.9	2,080	816,149	254.9
1973	482	77,813	619.4	987	88,133	1,119.9	488	64,311	758.8	2,408	832,147	289.4
1974	576	79,190	727.4	1,209	89,748	1,347.1	549	65,467	838.6	2,923	846,869	345.2
1975	649	77,048	842.3	1,279	94,221	1,357.4	646	68,951	936.9	3,126	864,900	361.4
1976	719	82,400	872.6	1,360	99,900	1,361.4	798	82,600	966.1	3,591	886,621	405.0
1977	733	83,200	881.0	1,633	100,810	1,619.9	940	83,400	1,127.1	4,256	894,700	475.7
1978	510	86,073	592.5	1,269	104,902	1,209.7	737	88,763	830.3	3,409	896,600	380.2
1979	711	87,848	809.4	1,714	107,150	1,599.6	908	91,369	993.8	4,373	914,800	478.0
1980	620	86,505	716.7	1,758	105,761	1,662.2	870	95,201	913.9	4,383	964,624	454.4
1981	548	86,446	633.9	1,761	105,682	1,666.3	892	95,287	936.1	4,289	964,691	444.6
1982	472	89,062	530.0	1,441	108,942	1,322.7	808	98,207	822.8	3,706	994,000	372.8
1983	359	91,064	394.2	1,056	111,529	946.8	649	100,274	647.2	2,886	1,023,200	282.1

Population data is an estimated total resident population based on figures taken from the 1980 census, which includes Armed Forces and their dependents in Hawaii, and residents temporarily absent, and excludes visitors present.

1/ Data shown only for computational convenience and not intended to imply accuracy beyond three significant figures.

The reported rates of Gonorrhea by selected age groups in Hawaii, according to their numerical ranking order are: 1) 20 - 24 years, 2) 25 - 29 years, and 3) 15 - 19 years.

TABLE 8

HAWAII RESIDENT GONORRHEA (GC) MORBIDITY BY YEAR (1974 - 1983),
CASE RATE PER 100,000 POPULATION, BY SEX, AND RESISTANCE TO PENICILLIN

YEAR	POPULATION a/	TOTAL GC	RATE GC	# FEMALE GC	# MALE GC	% MALE GC	TOTAL PPNG b/
1974	846,869	2,923	345.2	1,176	1,747	60%	-
1975	864,900	3,126	361.4	1,209	1,917	61%	-
1976	886,621	3,591	405.0	1,285	2,306	64%	10
1977	894,700	4,256	475.7	1,533	2,723	64%	22
1978	896,600	3,409	380.2	1,164	2,245	66%	26
1979	914,800	4,373	478.0	1,400	2,973	68%	63
1980	964,624	4,383	454.4	1,381	3,002	68%	162
1981	964,691	4,289	444.6	1,259	3,030	71%	184
1982	994,000	3,706	372.8	1,157	2,549	69%	99
1983	1,023,200	2,886	282.1	1,014	1,872	65%	93

a/ Source: Hawaii State Department of Planning and Economic Development, "The Population of Hawaii, 1980: Final Census Results" Statistical Report 143, March 18, 1981.

b/ Abbreviation for Penicillinase-producing *Neisseria gonorrhoeae*, the penicillin resistant form of gonorrhea.

TABLE 9

HAWAII INFECTIOUS SYPHILIS MORBIDITY TREND, BY YEAR (1974 - 1983) AND SEX

YEAR	P & S a/	EL b/	TOTAL	# FEMALES	# MALES	% MALES
1974	34	21	55	5	50	91%
1975	64	50	114	6	108	95%
1976	99	58	157	22	135	86%
1977	46	37	83	13	70	84%
1978	51	34	85	11	74	87%
1979	106	69	175	12	163	93%
1980	131	74	205	7	198	97%
1981	75	47	122	6	116	95%
1982	120	66	186	9	177	95%
1983	99	47	146	15	131	90%

a/ P & S - Primary and Secondary stage of syphilis are the infectious stages of syphilis when the lesions are present.

b/ EL - Early Latent stage of syphilis is an early stage of syphilis under one year's duration.

HANSEN'S DISEASE IN HAWAII
1983

Hawaii has the highest incidence and prevalence rates for Hansen's disease within the United States.

In 1983, 41 people were newly diagnosed with Hansen's disease and added to the registry. Five cases were returned to active registry, while 18 were discharged. In 1981 and 1982, there were 49 new cases registered (Table 1).

Of the 41 new cases diagnosed in 1983, 35 are foreign-born individuals, 4 are Hawaii-born, and 2 are U.S.-born (Tables 6 and 9). Of those whose place of birth is other than Hawaii, 21 came from the Philippines, 8 came from Samoa, and 2 came from Micronesia; the remaining 6 were born elsewhere. Three of the four Hawaii-born cases occurred in families with known Hansen's disease.

For the foreign-born, 17 had an onset of illness before coming to Hawaii, while 19 cases developed symptoms in Hawaii (Table 10). Of the 17 cases with onset prior to living in Hawaii, 9 had been previously diagnosed while 8 had no previous diagnosis of Hansen's disease. Of these 8, the median time interval between entry to Hawaii and diagnosis of Hansen's disease was 8.5 months (Range: less than one month to 55 months). Of the 19 cases with onset of symptoms in Hawaii, the median time interval between onset of symptoms and diagnosis was 38 months (Range: six months to 256 months).

Of the 41 new cases 3 were paucibacillary cases (I,TT) and 38 multibacillary cases (BT-LL). Of the 38 multibacillary cases, 5 were borderline lepromatous (BL) and 12 were lepromatous (LL); the remaining 21 cases were borderline tuberculoid or mid-borderline Hansen's disease.

Table 8 shows the age distribution of 1983 cases by age at time of registration in Hawaii. The distribution shows peaks in the 40-59 age groups with the 70-plus age group having the highest age-specific incidence.

Since early 1974, the policy followed by the program is to place all newly discovered cases of Hansen's disease under outpatient treatment unless severe reactions or complications dictate a short-term hospitalization. The program maintains surveillance over contacts of known cases and arranges for periodic examinations of these contacts. This allows for early diagnosis of disease in this at-risk population.

Inpatient care is available for those who require treatment and care for their chronic problems. Those requiring this type of care are mostly the older long-term patients, whose problems developed before the availability of effective drug therapy. Relapses and reactivity still occur among this inpatient group. Nearly all of these chronic care patients are residents of Kalaupapa Settlement, who by law are entitled to live out the rest of their lives in the Settlement and do so at their request. The inpatient facility on Oahu, Hale Mohalu at Leahi, is operated primarily to provide medical support for Kalaupapa and to care for any outpatient who develops a need for temporary inpatient care because of severe leprous reactions or complications.

TABLE 1

TOTAL HANSEN'S DISEASE PATIENTS REGISTERED BY REGISTER STATUS AND YEAR

STATE OF HAWAII, 1976-1983

Register Status	1976	1977	1978	1979	1980	1981	1982	1983
Total cases on register January 1	405	421	421	437	458	474	506	550
New cases added during the year	34	27	31	33	34	49	49	41
Formerly diagnosed cases returned to register	6	3	2	2	3	4	11	5
Removed during year	24	30	17	14	21	21	16	18
Deaths	6	5	5	5	8	6	4	6
Left the State	15	14	10	1	4	1	12	12
Discharged from further surveillance	3	11	2	8	9	14	0	0
Total cases on register December 31	421	421	437	458	474	506	550	578

TABLE 2

HANSEN'S DISEASE PATIENTS, KALAUPAPA REGISTRY STATUS

STATE OF HAWAII, 1977-1983

Register Status	1977	1978	1979	1980	1981	1982	1983
Total patients-Kalaupapa Registry January 1.....	131	128	127	124	119	115	112
Deaths.....	3	1	1	5	4	3	2
Transfer from Registry	-	1	2	-	-	-	-
Transfer to Registry.....	-	1	-	-	-	-	-
Left the State.....	-	-	-	-	-	-	-
Total patients - Kalaupapa Registry December 31.....	128	127	124	119	115	112	110
Reactivated cases..... (criteria: positive skin smears)	32	14	5	5	6	6	6

TABLE 3

TOTAL CASES OF HANSEN'S DISEASE REGISTERED BY TYPE, LOCAT' I AND YEAR
STATE OF HAWAII, 1977- 1983

Type and Location	1977	1978	1979	1980	1981	1982	1983
Total cases on register December 31..	421	437	458	474	506	550	578
Medically released.....	417	434	458	474	506	550	578
At home.....	288	304	328	349	385	432	462
Kalaupapa.....	128	127	124	119	115	112	110
Hale Mohalu at Leahi.....	1	3	6	6	6	6	6
Hospital Care Days - Total	44,267	42,253	40,471	39,996	41,150	41,071	39,288
Kalaupapa	37,469	34,961	34,741	33,971	34,320	34,565	33,745
Hale Mohalu at Leahi	6,798	7,292	5,730	6,025	6,830	6,506	5,543
Total Contacts December 31	1,070	1,088	1,110	1,400	1,600	1,600	2,000

TABLE 4

NEW CASES OF HANSEN'S DISEASE BY AGE GROUP AND YEAR
STATE OF HAWAII, 1977-1983

Age in Years	1977	1978	1979	1980	1981	1982	1983
All Ages.....	27	31	33	34	49	49	41
0 - 9	1	1	1	-	1	1	0
10 - 19	1	5	9	5	6	12	2
20 - 29	10	9	5	9	11	10	9
30 - 39	3	6	2	7	4	8	1
40 - 49	5	3	6	2	5	4	9
50 - 59	1	2	7	2	10	4	8
60 - 69	4	5	3	6	7	5	6
70 and over.....	2	-	-	3	5	5	6

TABLE 5
NEW CASES OF HANSEN'S DISEASE BY ISLAND OF RESIDENCE AND YEAR
STATE OF HAWAII, 1977- 1983

Island	1977	1978	1979	1980	1981	1982	1983
All Islands	27	31	33	34	49	49	41
Oahu	22	27	25	24	35	40	37
Hawaii	1	1	2	2	6	7	3
Maui	2	1	1	4	6	1	0
Kauai	2	1	5	4	2	1	1
Molokai	-	-	-	-	0	0	0
Lanai	-	1	-	-	0	0	0

TABLE 6
NEW CASES OF HANSEN'S DISEASE BY PLACE OF BIRTH AND YEAR
OF REGISTRATION
STATE OF HAWAII, 1977-1983

	Total (%)	1977	1978	1979	1980	1981	1982	1983
Hawaii	24 (9)	3	3	0	3	9	2	4
Samoa	46 (17)	7	10	5	5	6	5	8
Micronesia	7 (3)	0	0	0	0	1	4	2
Other Pacific Islands	4 (2)	1 [a]	1[b]	0	1[d]	0	1[a]	0
Philippines	167 (63)	15	16	24	23	33	35	21
Vietnam	3 (1)	0	0	2	0	0	1	0
U. S. Mainland	7 (3)	1	1	1	2	0	0	2
Other	6 (2)	0	0	1[c]	0	0	1[e]	4[efgh]
ALL	264(100)	27	31	33	34	49	49	41

a Tonga
b Fiji
c Canada
d Marshall Island
e India
f Laos
g Portugal
h China

TABLE 7

INCIDENCE OF HANSEN'S DISEASE BY ISLAND OF RESIDENCE, 1983

ISLAND	1980 POPULATION*	# OF CASES	RATE PER 100,000
ALL ISLANDS	930,271	41	4.4
OAHU	730,171	37	5.1
HAWAII	91,221	3	3.3
MAUI	70,609	0	0.0
KAUAI	38,269	1	2.6
MOLOKAI	-	0	-
LANAI	-	0	-

*Source: "Population Characteristics of Hawaii, 1980" - Population Report, No. 13, Oct. 1981

TABLE 8

AGE-SPECIFIC INCIDENCE OF HANSEN'S DISEASE IN HAWAII, 1983

AGE GROUP	NO. OF CASES	POPULATION*	RATE PER 100,000
0 - 9	0	142,520	-
10 - 19	2	163,167	1.2
20 - 29	9	170,189	5.3
30 - 39	1	133,446	0.7
40 - 49	9	90,905	9.9
50 - 59	8	97,846	8.2
60 - 69	6	77,397	7.8
70+	6	46,329	13.0
ALL	41	930,271	4.4

TABLE 9

INCIDENCE OF HANSEN'S DISEASE IN HAWAII, HAWAII-BORN VERSUS FOREIGN-BORN, 1983

	NO. OF CASES	POPULATION*	RATE PER 100,000
Hawaii-born	4	581,300	0.7
Foreign-born	35	122,243	29.4
Other	2	226,728	0.4
ALL GROUPS	41	930,271	4.4

TABLE 10

NEW CASES OF HANSEN'S DISEASE BY PLACE OF RESIDENCE AT ONSET OF SYMPTOMS
STATE OF HAWAII, 1983

RESIDENCE	NO. OF CASES
Hawaii	23
Other US	1
Canada	1
Philippines	5
Samoa	6
Marshall Islands	2
Laos	1
China	1
Tahiti	1
TOTAL	41

TABLE 11

SEX-SPECIFIC INCIDENCE OF HANSEN'S DISEASE IN HAWAII, 1983

	NO. OF CASES	POPULATION*	RATE PER 100,000
Males	22	462,584	4.8
Females	19	467,687	4.1
ALL	41	930,271	4.4

*Source: "Population Characteristics of Hawaii, 1980" Population Report, No. 13, Oct./1981

SUMMARY 1983

The Tuberculosis Branch maintains the State Tuberculosis Register, and monitors the care of all cases of tuberculosis in the State. Out-patient tuberculosis treatment for Oahu is provided at Lanakila Health Center Chest Clinic and Rural Clinics elsewhere on the island. Chest clinics for tuberculosis are held on neighbor islands with the assistance of the Public Health Nursing Branch. Leahi, Kula, and Samuel Mahelona Hospitals provide tuberculosis support and treatment services. Tuberculosis screening examinations, including skin tests and x-rays are performed by the Tuberculosis Branch at Lanakila Health Center. Skin testing is also performed by the Public Health Nursing Branch elsewhere on Oahu and in other counties, and x-rays in other counties are provided by various county-state hospitals. Examination of contacts of infectious cases and of infected children (without disease) is carried out cooperatively by the Tuberculosis and Public Health Nursing Branches.

Case-finding activities (Table 1) have shown further reduction in number of screening x-rays from 36,120 in 1982 to 30,835 in 1983. This is due to reduction of tuberculosis clearance requirements for certain employment categories in November, 1981, increased public and professional re-education that "routine" x-rays are no longer considered appropriate, and to Tuberculosis Branch policy changes. The Branch will continue to attempt to limit tuberculosis screening services to high-risk groups. Thirty-seven of our total 236 cases for 1983 were found through the screening program (Table 6), which demonstrates the value of continued case-finding activities.

During 1983, there was a slight reduction in the number of tuberculosis cases reported from 252 to 236. This reduction was artefactual related to a decrease in delays between diagnosis and counting of cases. Foreign-born individuals continue to account for the majority of our cases - 81.8% in 1983. The number of cases in recent immigrants decreased, while cases in immigrants with over five years residence in the U.S. increased. These variations are believed to represent random variations. U.S.-born rates remain low, indicating a good level of control of spread of tuberculosis in the community. Nevertheless, 79 of our cases were initially evaluated because of symptoms, and it is symptomatic patients who are most likely to spread tuberculosis. A majority of the cases were found by the Department of Health, with only 20% first reported by private physicians (Table 5). While six cases were first known to the Department of Health because of death certificates, only two deaths were considered to be directly or indirectly caused by tuberculosis.

As noted in Table 7, over half of our cases continue to be seen in the Filipino ethnic group, and Indochinese still account for a significant number of cases in relation to their small overall population. A very low number of cases is noted in Caucasians. In the younger age groups, female cases equal or outnumber male cases, whereas the reverse is so for the older population. Factors responsible for these statistics include immigration rates of various groups, tuberculosis prevalence in countries of origin, as well as socio-economic factors. A disturbing increase in number of reactivations has been noted (Table 8). In 1983, 33 cases had previous diagnoses of "inactive" tuberculosis, compared to 17 cases in 1982, and less than 20 cases in each of the three prior years. While this may represent a random variation, analysis of these cases is being carried out to determine whether possible program modifications would reduce re-activation risk.

Hawaii's tuberculosis incidence rate remains at or near the highest in the U.S., due to our immigration rate remaining the highest in the nation, and the fact that our immigrants are, more than other states, almost exclusively from countries with high tuberculosis prevalence. Our modest U.S.-born rates (for both Hawaii-born and mainland-born individuals), remain well below the national average, and attest to the value of maintaining a strong tuberculosis control program in the State.

TABLE 1

X-RAY SURVEY ACTIVITIES FOR TUBERCULOSIS BY COUNTY
STATE OF HAWAII, 1983

Geographic Area	Total Screening Films Taken	Retake Films Needed	X-rays Consistent with Current or Past Tuberculosis Infection					
			Total		Tuberculosis Diagnosed Current Disease		Tuberculosis Not Confirmed	
			Number	Rate*	Number	Rate*	Number	Rate*
State of Hawaii	30,835	1,466	214	6.9	22	.7	192	6.2
County of Honolulu	29,543	1,424	211	7.1	20	.7	191	6.5
Mobile Units	2,361	48	6	2.5	-	-	6	2.5
Lanakila Health Center	27,182	1,376	205	7.5	20	.7	185	6.8
Routine Survey	15,840	594	80	5.1	8	.5	72	4.5
Medical Referrals	927	90	22	23.7	2	2.2	20	21.6
Other Agency Referrals ...	8,441	581	88	10.4	9	1.1	79	9.4
Tuberculin Testing Program - PHN	1,769	104	14	7.9	1	.6	13	7.3
Extension of Stay of Non-Immigrant Visas	205	7	1	4.9	-	-	1	4.9
County of Hawaii	1,292	42	3	2.3	2	1.5	1	.8

*Per 1,000 survey films

TABLE 2

TUBERCULOSIS CASES REPORTED BY GEOGRAPHIC AREA OF RESIDENCE
STATE OF HAWAII, 1983

Geographic Area of Residence	TUBERCULOSIS CASES REPORTED			
	1982		1983	
	Number	Rate a/	Number	Rate a/
State of Hawaii	252	25.4	236	23.1
County of Honolulu	193	24.9	195	24.5
City of Honolulu	131	35.3	135	35.3
Rest of Oahu	62	15.4	60	14.5
County of Hawaii	16	16.3	14	13.5
County of Maui b/	34	42.6	18	22.6
County of Kauai	9	22.1	9	20.6

a/ Per 100,000 total population

b/ Includes Kalawao County

TABLE 3

TUBERCULOSIS CASES BY PLACE OF BIRTH AND LENGTH OF RESIDENCE, AND NUMBER OF PERSONS ADMITTED TO HAWAII WITH PERMANENT VISAS STATE OF HAWAII, 1983

Birthplace or Time in Hawaii	1982			1983		
	Number	Percent	Rate a/	Number	Percent	Rate a/
Total	252	100.0	25.4	236	100.0	23.1
Foreign-Born a/	206	81.7	146.0	193	81.8	132.8
1 year or less	100	39.7	---	83	35.2	---
Over 1 year - 2 years	38	15.1	---	22	9.3	---
Over 2 years - 5 years	20	7.9	---	18	7.6	---
Over 5 years	45	17.8	---	70	29.7	---
Unknown time in State	3	1.2	---	-	-	---
Mainland-Born	11	4.4	5.1	5	2.1	2.2
Hawaii-Born	35	13.9	5.6	38	16.1	5.9
Birthplace Unknown	-	-	---	-	-	---
U.S. Born Rate (Hawaii + Mainland)	46	18.3	5.5	43	18.2	5.0
U.S. National Average Rate	...	...	11.0	...	...	N/A
Number of Persons Admitted to Hawaii with Permanent Visas c/	6,573			5,383		

a/ Rate - Cases per 100,000 total civilian population; rate for foreign-born, mainland-born and Hawaii-born are estimates.
b/ Foreign-born includes people coming to Hawaii from both American and Western Samoa.
c/ Persons admitted to Hawaii with permanent visas include only individuals whose port of entry is Honolulu.

TABLE 4

TUBERCULOSIS CASES BY LOCATION OF DISEASE AND COUNTY OF RESIDENCE, STATE OF HAWAII, 1983

Location of Disease	State of Hawaii		COUNTY OF RESIDENCE							
			Honolulu		Hawaii		Maui*		Kauai	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	236	100.0	195	100.0	14	100.0	18	100.0	9	100.0
Pulmonary	217	92.0	176	90.3	14	100.0	18	100.0	9	100.0
Extra-pulmonary	19	8.0	19	9.7	-	-	-	-	-	-
Pleural	6	2.5	6	3.1	-	-	-	-	-	-
Lymphatic	6	2.5	6	3.1	-	-	-	-	-	-
Cervical	6	2.5	6	3.1	-	-	-	-	-	-
Intrathoracic	-	-	-	-	-	-	-	-	-	-
Other Lymphatic	-	-	-	-	-	-	-	-	-	-
Unknown	-	-	-	-	-	-	-	-	-	-
Bone and/or Joint	1	.4	1	.5	-	-	-	-	-	-
Genitourinary	2	.9	2	1.0	-	-	-	-	-	-
Miliary	3	1.3	3	1.5	-	-	-	-	-	-
Meningeal	-	-	-	-	-	-	-	-	-	-
Peritoneal	-	-	-	-	-	-	-	-	-	-
Other	1	.4	1	.5	-	-	-	-	-	-
Site Not Stated	-	-	-	-	-	-	-	-	-	-

*Includes Kalawao County

TABLE 5

TUBERCULOSIS CASES BY SOURCE OF REPORT AND COUNTY OF RESIDENCE
STATE OF HAWAII, 1983

	State of Hawaii		COUNTY OF RESIDENCE							
			Honolulu		Hawaii		Maui*		Kauai	
Source of Report	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	236	100.0	195	100.0	14	100.0	18	100.0	9	100.0
Health Department	122	51.7	95	48.7	8	57.1	11	61.1	8	88.9
Private Physician	48	20.3	35	17.9	6	42.9	6	33.3	1	11.1
Tuberculosis Hospital or OPD	37	15.6	36	18.5	-	-	1	5.6	-	-
General Hospital or OPD	16	6.8	16	8.2	-	-	-	-	-	-
Tripler Army Hospital or VA	6	2.6	6	3.1	-	-	-	-	-	-
Death Certificate	6	2.6	6	3.1	-	-	-	-	-	-
Other	1	.4	1	.5	-	-	-	-	-	-

*Includes Kalawao County

TABLE 6

TUBERCULOSIS CASES BY REASON FOR EXAMINATION AND COUNTY OF RESIDENCE
STATE OF HAWAII, 1983

	State of Hawaii		COUNTY OF RESIDENCE							
			Honolulu		Hawaii		Maui*		Kauai	
Reason for Examination	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	236	100.0	195	100.0	14	100.0	18	100.0	9	100.0
Health Department Survey	37	15.7	37	19.9	-	-	-	-	-	-
Contact & Source Investigation	6	2.5	4	2.1	-	-	2	11.1	-	-
Chest Clinic Follow-up	19	8.1	15	7.7	2	14.3	2	11.1	-	-
Positive Reactor or Converter	5	2.1	2	1.0	1	7.1	-	-	2	22.2
Extension of Stay, Non-Immigrant Visa	-	-	-	-	-	-	-	-	-	-
Aliens with Waiver of Excludability for Tuberculosis	32	13.6	26	13.3	1	7.1	3	16.7	2	22.2
Aliens with Tuberculosis Not Considered Active	36	15.3	32	16.4	2	14.3	2	11.1	-	-
Review of Other Visa Films & Evaluation of Foreign-Born	2	.8	1	.5	1	7.2	-	-	-	-
Symptoms or Illness	79	33.5	63	32.3	5	35.7	8	44.4	3	33.4
General Hospital & PHD X-ray Findings	9	3.8	4	2.1	2	14.3	1	5.6	2	22.2
Death Certificates	5	2.1	5	2.6	-	-	-	-	-	-
Other	6	2.5	6	3.1	-	-	-	-	-	-
Unknown	-	-	-	-	-	-	-	-	-	-

*Includes Kalawao County

TABLE 7

TUBERCULOSIS CASES BY AGE, RACE AND SEX
STATE OF HAWAII, 1983

Age Group	ALL Races			Caucasian		Hawaiian and part Hawaiian		Chinese		Filipino		Japanese		Korean		Viet., Cam.,Lao.		Other*	
	Total	Male	Female	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total	236	130	106	6	3	2	5	4	4	78	53	21	11	1	13	13	6	5	11
0 - 4	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
5 - 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 - 19.....	6	2	4	-	-	-	-	-	-	2	2	-	-	-	-	-	1	-	1
20 - 29	52	26	26	1	-	-	-	-	2	16	11	1	-	-	6	6	1	2	6
30 - 39	31	12	19	2	1	-	1	-	-	7	10	1	1	-	4	1	1	1	1
40 - 49	13	9	4	-	-	-	1	2	-	6	2	-	-	-	1	1	-	-	-
50 - 59	42	25	17	-	-	-	-	1	1	19	11	1	3	-	1	2	-	2	1
60 - 69	44	27	17	1	1	2	2	1	1	12	10	7	1	1	1	3	1	-	-
70 and Over	47	29	18	2	1	-	1	-	-	16	7	11	6	-	-	-	1	-	2

*Other: Palau - 1, Saipan - 1, Tonga - 6, Samoa - 4, Thailand - 1, Trust Territory of Pacific Islands -1, and Indonesian - 1.

TABLE 8

REACTIVATIONS REPORTED BY BACTERIOLOGY AND NUMBER OF REACTIVATIONS
BY COUNTY, STATE OF HAWAII, 1983

County	Total	Bacteriology			Number of Reactivations		
		Positive	Negative	Unknown	1	2	3
Total	33	24	8	1	29	4	-
Honolulu	28	22	5	1	24	4	-
Hawaii	3	2	1	-	3	-	-
Maui*	2	-	2	-	2	-	-
Kauai	-	-	-	-	-	-	-

*Includes Kalawao County

TABLE 9

REACTIVATIONS REPORTED BY AGE, SEX AND COUNTY, STATE OF HAWAII, 1983

Age Group	State of Hawaii			Honolulu		Hawaii		Maui*		Kauai	
	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	33	18	15	14	14	3	-	1	1	-	-
Under 5	-	-	-	-	-	-	-	-	-	-	-
5 - 14	-	-	-	-	-	-	-	-	-	-	-
15 - 24	1	1	-	1	-	-	-	-	-	-	-
25 - 44	4	1	3	-	3	-	-	1	-	-	-
45 - 64	11	5	6	5	5	-	-	-	1	-	-
65 and Over	17	11	6	8	6	3	-	-	-	-	-

*Includes Kalawao County

TABLE 10

NUMBER OF TUBERCULOSIS DEATHS, AND NEW CASES REPORTED BY YEAR
STATE OF HAWAII, 1930, 1940, 1950, 1960, 1970, 1980 THROUGH 1983

Year	Deaths	New Cases Reported	Tuberculosis Cases
1930	379	1,060	1,060
1940	257	717	717
1950	114	743	339
1960	13	462	293
1970	13	733	270
1980	5	810	167
1981	4	885	197
1982	2	903	252
1983	2	768	236

DENTAL HEALTH DIVISION

DENTAL HEALTH DIVISION

DEPARTMENT OF HEALTH ANNUAL REPORT
1983

SUMMARY

The Dental Health Division is responsible for conducting programs for the prevention and control of dental diseases. Other than carrying on planning and surveillance activities it conducts community programs aimed at preventing tooth decay and treating oral diseases that exist among groups of needy people.

With a staff of six dentists this year, the program treated 2,475 patients or 106 fewer patients than last year. The number of extractions per 100 patients in the community-centered program (38.3 teeth extracted per 100 patients) was three percent higher than patients in the institutional program (35.2). More dentures were made in community programs also. 4.3 dentures per 100 patients were made in the community program as compared to 3.6 in the institutional program. Seventy-six percent of the institutional patients were treated to completion. The completion rate in the community clinics was one hundred percent of the patients seen.

Mass prevention of tooth decay is made available to Hawaii's school children through the topical fluoride application program conducted by the Dental Hygiene Branch. The program aims at reducing tooth decay among enrolled children by 25% or more. This method of preventing decay is being utilized in Hawaii due to the lack of acceptance of community water fluoridation. Without doubt flouridation of water, with a potential of reducing decay as much as 65%, would be the most efficient way of preventing decay for Hawaii.

In Fiscal Year 1982-1983, a total of 67,714 children were provided applications of topical fluoride by dental hygienists. The program level on Hawaii showed a decrease of 28.8% over the last fiscal year and was due primarily to vacancies on all islands, 4 hygienists on extended maternity leave and 1 on worker's compensation.

Dental health education was provided to 9,658 individuals through classroom talks and assemblies. This activity was in addition to chairside dental health instruction given to children as part of the topical fluoride application procedure. Included in the total number of individuals were classroom teachers who were given assistance in preparing to present dental health instruction to their students. These teachers received assistance on a one-to-one basis.

TABLE 1

SUMMARY OF DENTAL HEALTH SERVICES

STATE OF HAWAII, FISCAL YEAR 1982 - 1983

Type of Services	Number Served
Prevention and Detection	
Number of School Children Given Topical Fluoride Applications	67,714
Number of School Children Referred to Private Dentists	184,249
Number of School Children Given Dental Health Education	9,658
Treatment	
Number of Persons Treated in Institutions	616
Number of Persons Treated in Community-centered Facilities	1,859

TABLE 2

DISTRIBUTION OF DENTAL HYGIENE SERVICES BY COUNTIES
STATE OF HAWAII, FISCAL YEAR 1982-1983

Year and County	Number of Schools Served		Number of Children Served		
	Public	Private	Number of Dental Inspections and Follow-up	Number of Fluoride Applications	Dental Health Education
1981-1982 STATE	214	97	200,830	72,699	81,577
1982-1983 STATE	201	70	184,249	67,714	77,372
OAHU	158	51	160,573	60,006	69,502
HAWAII	22	13	11,780	5,150	5,160
KAUAI (position vacant)	--	--	--	--	--
MAUI-MOLOKAI-LANAI	21	6	11,896	2,558	2,710

TABLE 3

DENTAL TREATMENT STATUS OF CHILDREN IN 186 SCHOOLS BY AREAS
STATE OF HAWAII, 1982-1983

Area	Number of Schools Reported	Enrollment	Number of Children in grades Kindergarten - 12th			Percent Completed and Receiving Treatment
			Completed Treatment	Receiving Treatment	No Treatment During School Year	
STATE..... 1981-1982	178	128,072	7,062	39,528	81,482	36.4
STATE..... 1982-1983	186	122,584	7,107	37,007	77,670	36.6
HONOLULU CITY.....	53	35,215	2,522	13,246	19,447	44.8
RURAL OAHU.....	97	74,506	3,169	23,335	48,002	35.6
Central Oahu.....	33	26,641	1,295	9,565	15,781	40.8
Leeward Oahu.....	34	29,520	1,205	8,209	20,106	31.9
Windward Oahu.....	30	18,345	669	5,561	12,115	34.0
HAWAII.....	17	9,435	828	893	7,714	18.2
KAUAI (position vacant).....	-	-	-	-	-	-
MAUI.....	19	3,428	588	333	2,507	26.9

TABLE 4

TREATMENT DATA
HOSPITAL DENTISTRY & COMMUNITY SERVICES BRANCH
STATE OF HAWAII, F.Y. 1982 - 1983

CLINICS	PATIENTS				SELECTED PROCEDURES							
	No. of New Patients	Adults	Minors	No. Completed Treatment	Examinations	Radiographs	Prophylaxis	Topical Fluoride Appl.	Fillings	Extractions	Crowns	Dentures
TOTAL	2,475	1,880	595	2,136	2,610	2,697	1,651	465	3,384	929	195	102
Institutional	616	604	12	722	917	367	545	28	364	217	35	22
Community-Centered	1,859	1,127	732	1,414	1,693	2,330	1,106	437	3,020	712	160	80

ENVIRONMENTAL PROTECTION AND HEALTH SERVICES DIVISION

SUMMARY

The Pollution Investigation and Enforcement Branch of the Environmental Protection and Health Services Division is responsible for preserving and improving the quality of the environment throughout the State. Monitoring and enforcement programs are the principle vehicles through which pollution control rules are implemented in the fields of air; water, including all non-potable coastal and fresh waters; and solid waste.

The branch is involved in the following activities:

1. Determination of violations and enforcement of pollution control rules.
2. Monitoring of ambient conditions with air and water quality standards as control measures.
3. Inspection of conditions and operating procedures at landfills and sewer treatment plants.
4. Investigation of complaints by the public and conducting special studies in critical areas of environmental concern.

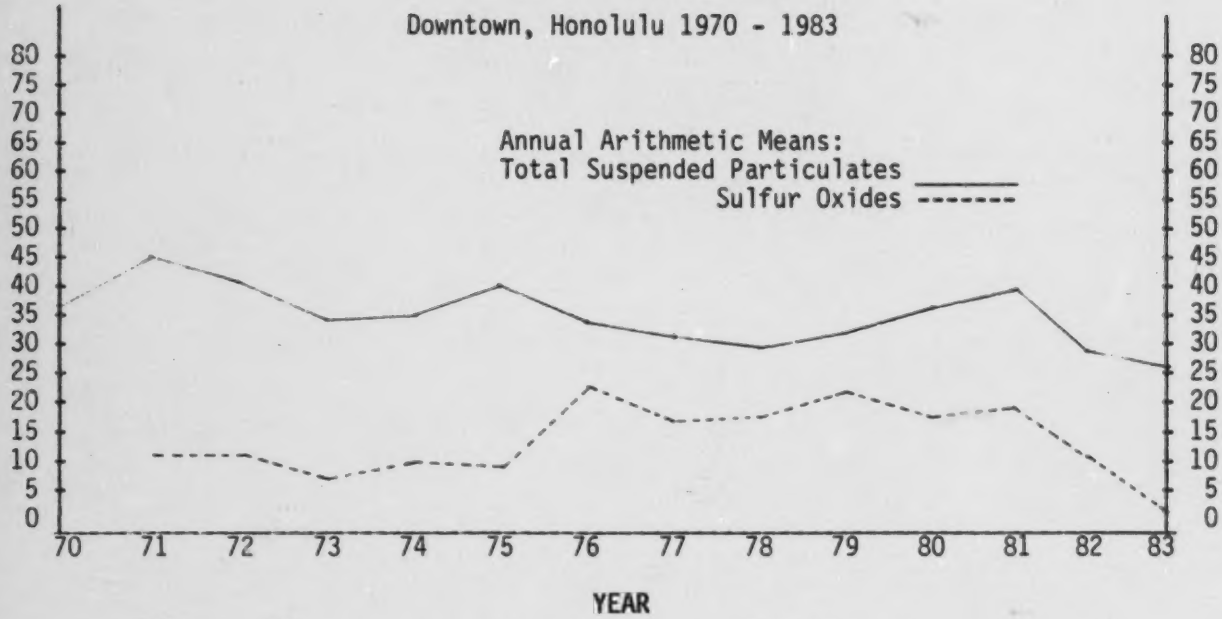
TABLE 1
SUMMARY OF AIR QUALITY DATA
STATE OF HAWAII, 1983
(24-Hour Sampling)

Sampling Stations	Micrograms Per Cubic Meter (ug/m^3)							
	Total Suspended Particulates				Sulfur Dioxide*			
	No. of Samples	Annual Minimum	Annual Maximum	Arith. Average	No. of Samples	Annual Minimum	Annual Maximum	Arith. Average
Barbers Point - Oahu	41	28	193	54	44	<5	95	5.2
Downtown, Honolulu - Oahu	56	14	58	26	56	<5	16	<5
Kalihi Kai - Oahu	46	23	98	43	...	...	...	...
Pearl City - Oahu	55	17	57	30	50	<5	5	<5
Waikiki - Oahu	53	18	59	33	...	...	...	...
Waimanalo - Oahu	49	11	45	23	...	...	...	...
Kahului - Maui	46	4	163	69	42	<5	67	5.6
Kihei - Maui	52	12	139	45	...	...	...	...
Hilo - Hawaii	47	7	50	17	43	<5	23	<5
Lihue - Kauai	53	18	90	39	54	<5	<5	<5

*SO_x sampling discontinued January 1, 1983 at the Waikiki and Kalihi Kai Stations.

Source: Hawaii State Department of Health,
Pollution Investigation and Enforcement Branch, records

FIGURE 1
TRENDS OF TOTAL SUSPENDED PARTICULATES
AND SO_X IN THE AMBIENT AIR



Date	TSP ug/m^3	SO_X ug/m^3
1970	37	-
1971	45	11
1972	41	11
1973	34	7
1974	35	10
1975	40	9
1976	34	23
1977	31	17
1978	29	18
1979	32	22
1980	37	18
1981	40	19
1982	29	11
1983	26	2.7

Sampling is conducted approximately 46 ft. above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii.

Primary and secondary National Ambient air quality standards have been promulgated by the federal government. Primary standards are designed to prevent adverse effects on public health, while secondary standards are designed to prevent adverse effects on public welfare, including the values, and soiling and deterioration of materials. The standards for total suspended particulates (TSP) and sulfur oxides (SO_X) for the annual mean values are as follows:

	TSP(ug/m^3)	SO_X(ug/m^3)
Primary standard	75	80
Secondary standard	60	

TABLE 2
WATER QUALITY ON PUBLIC BEACHES: 1983

Beaches	Number of Samples	*Fecal Coliform Density Geometric Means (MPN/100 ml)
Oahu:		
Ala Moana Park (Ewa)	23	6.8
Ala Moana Park (Center)	11	2.0
Ala Moana Park (Diamond Head)	9	6.2
Elks Club Beach	11	4.0
Ewa Beach	10	4.4
Ft. DeRussy Beach	11	5.6
Gray's Beach	23	5.7
Hanauma Bay	11	6.8
Kahana Park Beach	11	24.0
Kahanamoku Beach	12	3.4
Kahanamoku Lagoon (Diamond Head)	23	23.3
Kailua Bay Outfall Shoreline	11	2.0
Kailua Beach Park	12	3.1
Kokokahi Pier	11	29.8
Kuhio Beach	11	9.7
Public Bath Beach	23	2.5
Tavern Beach	11	4.4
Sand Island Pt. #3	10	2.9
Kauai:		
Brennecke Beach	5	4.1
Hanalei Bay Landing	5	86.0
Poipu Beach	5	2.0
Hawaii: (Hilo)		
Exit of Ice Pond	11	27.5
Leileiwi Beach Park	25	121.1
Onekahakaha	11	6.4
Puhi Bay #3	8	12.6
Hawaii: (Kona)		
Hapuna Beach	9	15.2
Kahaluu Beach	9	6.4
Kealakekua Bay (off curio stand)	8	3.9
Kealakekua Bay (off canoe landing)	9	4.4
Magic Sands Beach	9	3.4
Puako Beach Lots (middle)	9	21.4
Puako Beach Lots (far end)	9	21.2
Spencer Beach Park	9	4.7
Maui:		
Hukilau Hotel Shoreline	12	3.3
Maui Sheraton	12	2.3

*The geometric mean standard for fecal coliform density is 200 per 100 ml.

Source: Hawaii State Department of Health,
Pollution Investigation and Enforcement Branch, records

CONSTRUCTION GRANTS PROGRAM

The major function of the Wastewater Treatment Works Construction Grants Branch is to administer the Construction Grants Program for public wastewater treatment works pursuant to P.L. 92-500. Under the said program, 75 percent of the cost of constructing public treatment facilities are financed with federal funds, 10 percent by state funds and 15 percent by county funds. A total of $20,404,999 of federal funds were awarded to wastewater treatment works projects in Hawaii during 1983. The major objectives of the construction of public wastewater treatment works are to abate the pollution of the State's waters and to eliminate public health hazards caused by inadequate sewage disposal systems.

The administering of the program includes review of grant applications, facilities plans, environmental impact statements, infiltration-inflow analysis, construction plans and specifications, payment requests, construction activities contracts and other technical documents. A project is broken down into three (3) steps which include Step 1 (development of a facilities plan), Step 2 (development of construction plans and specifictions) and Step 3 (construction).

The following statistics indicate federal grants awarded to various projects (Table 1) and projects which have been completed during the year 1983 (Table 2):

TABLE 1

GRANTS AWARDED FOR:	PROJECT STEP	FEDERAL GRANT AMOUNT
Paia Sewerage System, Force Main & Pump Station	3	$ 4,240,103
Kahala Sewage Pump Station & Force Main	3	2,604,389
Manoa-Kaimuki Interceptor Relief Sewer	3	749,676
Kailua Sewers, Section 9	3	597,776
Nanakuli Sewers, Section 1	3	1,204,353
Waianae Sewers Outfall Extension	3	6,408,963
Grant Increases Awarded:		
Ahuimanu Sewage Pump Station	3	239,315
Kaneohe/Kailua Facility Plan	1	35,205
Pearl City Force Main, Section 1A	3	21,034
Kailua-Kona Northern Zone (Design)	2	59,294
Wailua-Haleiwa Facility Plan	1	8,842
North Oahu Facility Plan	1	22,469
Paia Sewerage System, Section 2, Part B	3	2,331,962
Sand Island, Unit I, Phase 2	3	1,881,618
	Total	$20,404,999

TABLE 2

COMPLETED PROJECTS	PROJECT STEP
Lahaina, Part A	3
Honouliuli, Inc. 1	3
Papaikou Wastewater Treatment Plant	3
Halawa Interceptor Sewer	3
Ala Moana, Force Main 1	3
Makakilo Interceptor Sewer	3
Pacific Palisades	3
Pauoa Road Relief Sewer	3
Nanakuli Interceptor Sewer, Sec. 3	3
Ewa Sewage Pump Station	3
Jade Street	3
Lualualei Sewage Pump Station, Force Main	3
Hanapepe Interceptor Sewer	3
Hart Street Sewage Pump Station	3

ENVIRONMENTAL PERMITS BRANCH

The Environmental Permits Branch administers permit and registration systems for air, water and solid waste programs by reviewing and evaluating applications and engineering reports and plans.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS SECTION

Under federal and state laws, no person can discharge pollutants into a waterway from a point source unless a permit is obtained from the Department, which regulates what may be discharged and how much. Point sources include private and public wastewater treatment facilities, manufacturing plants, agriculture, wholesale, retail and other commercial establishments. Those obtaining permits comply with firm, legally enforceable requirements to meet applicable state laws. At present, the Department administers 97 NPDES permits.

The Department currently administers a General Pretreatment Program for EPA. This program controls wastewater discharges into municipal sewer systems. This program was delegated to the City and County of Honolulu during 1982.

Another program administered by the Department is the Permit to Operate Private Wastewater Treatment Works (WTW) that discharge pollutants to subsurface or irrigation systems. The Department currently enforces 188 permits over private WTW's. This program will eventually lead up to the delegation of another joint federal-state program for regulating wastewater discharge into the ground for the purposes of protecting groundwater resources. There are an estimated 500 injection wells in the State which transmit wastewater of some kind into groundwaters. The proposed Underground Injection Control Program will determine and control any threat these wastewaters will have on our present and future drinking water resources.

Table 1

Permits Issued or Renewed (1983 Calendar Year)

NPDES	29
Permits to Operate Private STP's	3
Zones of Mixing	2
NPDES Permits Modified	4

AIR POLLUTION CONTROL AND SOLID WASTE MANAGEMENT PERMITS SECTION

Air and Solid Waste permits are also administered by the Environmental Permits Branch. Air permits are issued to stationary sources of air pollution. Its primary objective is to safeguard our State Ambient Air Quality Standards. Solid waste permits are issued to sanitary landfills, open dumps and processing facilities such as reclamation plants, transfer stations and incinerators so as to assure that state's standards are met by these facilities.

Table 2

Air Pollution Control (1983 Calendar Year)

Authority to Construct Permits Issued	43
Permit to Operate Issued	41

Solid Waste Management

Permits Issued	4

FOOD AND DRUG BRANCH

The Food and Drug Branch in the Environmental Protection and Health Services Division protects the health of the consumer by ensuring that foods are wholesome; drugs and therapeutic devices are safe and effective; cosmetics are harmless; and that all these products are properly labeled, packaged, and advertised; controlled substances, including narcotics, are distributed, prescribed, administered, and dispensed in accordance with rigid control requirements so as to avert their illegal diversion. The Branch is also empowered to require that certain hazardous household products carry adequate label warnings for the safety of children and to be packaged with safety closures.

The objectives of the Food and Drug Branch are carried out by two sections under its jurisdiction: The Food and Drug Section and the Investigations and Narcotics Control Section.

The Food and Drug Section administers the Hawaii Food, Drug and Cosmetics Act; the Hawaii Poison Prevention Packaging Act; the regulations on milk, frozen desserts, and poisons; while the Investigations and Narcotics Control Section administers the Uniform Controlled Substances Act.

The Food and Drug Section has a staff of five field inspectors and one supervisor. This section operates under the administration of the Chief, Food and Drug Branch, which was vacant during the year. Its primary responsibilities involve the inspecting of food and drug establishments, investigating consumer complaints and collecting various specimens for examination either in the field or by the Laboratories Branch for conformity with purity, labeling, and identity standards.

Table 1 shows the various samples examined by the Food and Drug Section. The number of samples collected for pesticide testing increased three-fold over 1982 due to more emphasis in this area.

Table 2 shows the number of samples of milk and milk products collected for heptachlor epoxide residues. The heptachlor-in-milk incident was resolved in early 1983 and this is reflected in a dramatic decrease in the number of samples collected and found to be violative as compared to 1982.

Table 3 relates the number of milk products collected and tested for compliance with the milk standards. There was no substantial change in the total number of samples collected in comparison with 1982.

Table 4 relates the number of frozen desserts collected for compliance with the frozen dessert standards. A slight increase over 1982 in the number of ice milk samples collected is probably due to the fact that the heptachlor incident was resolved in 1983 and section activities began to normalize.

Table 5 shows the amount of commodities destroyed. Unlike previous years, Oahu did not have the bulk of the commodities destroyed. Kauai led in this category due to the amount of food destroyed during Hurricane Iwa. Although Hurricane Iwa occurred in 1982, a tabulation of the foods destroyed in the disaster was not available for the 1982 statistical report and thus is included in this report.

Table 6 shows other selected activities of the Food and Drug Section. There was a three-fold increase over 1982 in the number of labels reviewed. This increase was again probably due to normalization of the section's activities after the heptachlor incident.

TABLE 1

SUMMARY OF SAMPLES EXAMINED BY THE FOOD AND DRUG SECTION ON OAHU
STATE OF HAWAII, 1983

Type of Samples Collected	Number Collected	Violative Samples
Foods for Pesticide Analyses a/	345	-
Samples for Evidence Documentation b/	378	177
Product Standard Samples c/	31	2
Water Samples from shellfish growing areas	6	-

a/ Pesticide analyses of foods other than milk and milk products.

b/ Samples to document a violation or suspected violation which may have been found during an inspection or investigation.

c/ Samples to determine compliance with labeling and product standard requirements.

TABLE 2

SAMPLES AND ANALYSES OF VARIOUS DAIRY PRODUCTS FOR HEPTACHLOR EPOXIDE
STATE OF HAWAII, 1983

Product	Number of Samples Collected	Violations*
Raw Milk	690	40
Homogenized Milk	289	-
Other Dairy Products	199	-
Total	1,178	40

*Violative level is 0.1 ppm. The number of violative samples includes retested samples. In addition, violative dairies were tested routinely to determine when the milk could be sold. Milk contaminated with excessive levels of heptachlor was destroyed.

TABLE 3

SAMPLES AND ANALYSES OF MILK AND MILK PRODUCTS
STATE OF HAWAII, 1983

Product	No. of Samples for Product Standards a/	Violative Samples b/	No. of Samples for Pesticide Analyses c/	Violative Samples b/
Raw Milk	411	28	692	-
Homogenized Milk	145	11	294	-
Other d/	702	115	119	-

a/ Analyses to determine compliance with various milk standards including microbiological, inhibitory substance, somatic cell, phosphatase, milkfat, solids-not-fat, and temperature standards.

b/ The number of violative samples include retested samples.

c/ Samples collected for pesticide analyses other than heptachlor and heptachlor epoxide.

d/ Other milk products include recombined milk, imitation milk, 2% milkfat milk, half and half, skim milk, yogurt, sour cream, etc.

TABLE 4

SAMPLES AND ANALYSES OF FROZEN DESSERTS
STATE OF HAWAII, 1983

Type of Frozen Dessert	Number of Samples	Violative Samples
Ice Milk	590	103
Ice Cream	29	5
Sherbert	16	6
Frozen Yogurt	48	2
Total	683	116

Samples tested for compliance with various frozen dessert standards including milkfat, solids-not-fat and microbial standards.

TABLE 5

FOOD AND DRUGS CONDEMNED AND DESTROYED BY COUNTY
STATE OF HAWAII, 1983

County	Foods (Weight in Pounds)	Retail Value	Drugs & Medical Devices (Weight in Pounds)	Retail Value
Honolulu	240,798	$158,400	20,440	$47,396
Hawaii	28,784	43,840	-	-
Maui	6,967	11,600	-	-
Kauai	416,772	189,442	-	-
Total	693,321	$403,282	20,440	$47,396

TABLE 6

SELECTED ACTIVITIES OF THE FOOD AND DRUG SECTION
STATE OF HAWAII, 1983

Activities	Number
Agency Assistance	29
Complaint Investigations	214
Label Reviews	174
Frozen Dessert Permits Issued	411
Poison Permits Issued	1,060
Permits Issued for Prophylactic Devices	2

SUMMARY - CALENDAR YEAR 1983

The principal activity of the Sanitation Branch is to maintain a sanitary and healthful environment for the people in Hawaii by providing inspectional, educational and enforcement activities. Sanitarians investigate and abate insanitary conditions and health hazards, prevent the creation of public health nuisances and minimize insanitary conditions which may be a threat to health. Inspections are made of food and food service establishments; milk plants, frozen dessert manufacturing plants; dairy farms; dwelling units, hotels and other multi-dwelling units; public swimming pools; barber shops; mortuaries and cemeteries; laundries; private sewage disposal systems and various other premises for certificates of approval, clearances for licensure or for permit issuance; or for compliance with public health standards and requirements.

The total number of inspections showed an increase from 52,883 in 1982 to 63,122 in 1983. This increase in the number of inspections made was due to the filling of some of the vacant sanitarian positions and the termination of requests for assistance by another branch in handling emergencies (heptachlor crisis, recalls of canned salmon, Hurricane Iwa).

The total number of insanitary conditions abated decreased from 12,593 in 1982 to 12,338 in 1983. This decrease was due to our educational program which emphasized the importance of good sanitary practices and the public awareness resulting therefrom.

The Drinking Water Program of the Sanitation Branch is vested with the responsibility of assuring that public water systems as defined serve water which meets certain minimum standards which are outlined in Chapter 20, Title 11, Administrative Rules. Table 6 reflects the island-by-island distribution of water systems and divides these systems by ownership. These systems vary from the very large Honolulu/Windward/Pearl Harbor water system with many tens of groundwater sources to the very small Oceanview Coffee Shop system with a roof catchment system. To assure good drinking water quality, the Program monitors directly or requires submission of data from approved laboratories on a schedule as prescribed by Chapter 20. In addition, the Program conducts sanitary surveys of a number of the water systems each year to review the facilities as well as the operational and maintenance procedures of the water system owner or operator. When appropriate, the Program makes recommendations to further protect systems against the potential of contamination. When problems arise the Program lends technical assistance to help minimize potential adverse health effects.

TABLE 1

AVERAGE DAILY PRODUCTION OF PASTEURIZED MILK BY ISLAND
STATE OF HAWAII, 1983

ISLAND	AVERAGE DAILY PRODUCTION (Pounds)
Oahu	327,344
Hawaii	74,000
Maui County*	---
Kauai	46,541

*Includes the islands of Maui, Molokai, and Lanai

No retail raw milk is sold for human consumption in the State.

2.15 pounds = 1 quart

TABLE 2

DAIRIES AND MILK PLANTS AS OF DECEMBER 31, 1983
BY TYPE AND ISLAND

TYPE	TOTAL	ISLAND			
		OAHU	HAWAII	MAUI COUNTY*	KAUAI
Pasteurization Plants	5	2	1	1	1
Milk Plant Producers	24	18	4	1	1

*Includes the islands of Maui, Molokai, and Lanai

TABLE 3

DISTRIBUTION OF SANITARY INSPECTIONS BY TYPE AND ISLAND
STATE OF HAWAII, 1983

TYPE OF INSPECTION	TOTAL	ISLAND			
		OAHU	HAWAII	MAUI COUNTY*	KAUAI
Total Inspections	63,122	36,026	9,662	9,884	7,550
Dwellings	5,234	3,219	128	550	1,337
Apartments	1,001	914	21	55	11
Hotels	751	436	27	198	90
Lodging Houses	39	38	-	1	-
Tenements	90	88	-	2	-
Boarding Houses	57	50	-	2	5
Adult Family Boarding Homes	412	329	55	12	16
Care Homes	373	279	43	20	31
Day Care Centers	488	329	79	41	39
Kindergartens, Schools	902	566	41	250	45
Institutions, Hospitals	699	89	11	588	11
Funeral Establishments, Cemeteries	74	42	4	24	4
Liquor Dispensers	2,940	2,059	205	543	133
Grocery Stores	4,887	3,530	441	565	351
Markets	2,115	1,672	123	244	76
Bottling Plants, Canneries	50	35	2	10	3
Food Manufacturers	3,802	2,525	349	732	196
Restaurants, Cafeterias, Drive-Ins, Lunch Counters, etc.	12,693	9,506	888	1,655	644
Food sales	1,584	705	360	322	197
Lunch Wagons	1,329	1,199	39	60	31
Food Peddlers	202	170	7	25	-
Dairy Farms, Milk Plants	1,162	749	225	98	90
Frozen Dessert Plants	88	61	14	12	1
Dispensing Freezers, Shave Ice Outlets	535	107	106	197	125
Vending Machine Operations	8	4	-	1	3
Warehouses	1,019	836	10	138	35
Hog Ranches, Poultry Farms, Feed Lots	197	139	8	11	39
Slaughterhouses	28	13	5	7	3
Vegetable Gardens	47	5	22	10	10
Flower Gardens	7	3	-	2	2
Barber Shops, Beauty Parlors	786	700	44	32	10
Massage Parlors, Reducing Salons	84	57	9	14	4
Tattoo Shops	12	9	-	3	-
Clothes Cleaners, Laundries	208	171	6	27	4
Secondhand Dealers	1	1	-	-	-
Mattress Makers	4	4	-	-	-
Amusement Places, Parks, Playgrounds	624	256	85	253	30
Recreational Trailer Camps	28	25	1	2	-
Industrial Plants, Small Shops, General Merchandise	1,321	294	102	817	108
Swimming Pools	1,157	496	125	438	98
Household Sewage Disposal Systems, House Drain, Sewer	5,291	738	2,648	898	1,007
Subdivisions	812	250	95	97	370
Unclassified	9,981	3,328	3,334	928	2,391

*Includes the islands of Maui, Molokai and Lanai

TABLE 4

SUMMARY OF ACTIVITIES BY SANITARIANS
STATE OF HAWAII, 1983

ACTIVITY	TOTAL	ISLAND			
		OAHU	HAWAII	MAUI COUNTY*	KAUAI
A. Inspection, Investigation, Enforcement					
1. Insanitary Practices and Hazardous Conditions Abated					
Structures Repaired	136	119	1	1	15
Plumbing, Fixtures Repaired	77	63	2	5	7
Water Supply Violations Corrected	40	31	1	4	4
Sewage Disposal Violations Corrected	872	180	229	383	80
Ventilation Corrected	61	41	4	3	13
Floor, Walls, Ceiling Cleaned	216	210	-	3	3
Streets, Alleyways, Yards Cleaned of Rubbish, etc.	171	150	4	13	4
Garbage Containers, Conveyances Corrected	75	68	2	3	2
Domestic Animals, Poultry Nuisances Abated	151	127	3	7	14
Vermin, Rodent, Birds, Animal Nuisances Abated	74	64	2	3	5
Food Equipment Replaced, Repaired	21	15	2	4	-
Food Equipment, Utensils Cleaned	8	7	-	-	1
Food Equipment, Utensils Sanitized	15	13	-	1	1
Food Equipment, Utensils Properly Stored, Handled	21	17	-	3	1
Food Storage, Display, Handling Corrected	22	19	-	3	-
Insanitary Personnel Practices Abated	17	14	-	-	3
Food Handlers' Certificate Obtained	1	-	-	1	-
Toilet Room and Facilities Cleaned, Repaired	48	41	-	6	1
Barber, Beauty Shop Instruments Cleaned, Sanitized	13	13	-	-	-
Swimming Pool Disinfected; pH Maintained	92	80	1	6	5
Depth Marking Violations Corrected	5	4	-	1	-
Swimming Pool Safety Violations Corrected	39	25	4	2	8
Bacteriological Standards Met	5	-	-	-	5
Abnormal Milk Excluded	5	4	1	-	-
Milking Procedures Corrected	13	13	-	-	-
Thermometric Controls in Compliance	23	17	-	6	-
Pressure Differential of Pasteurizer Met	3	2	-	1	-
Holding Time of Pasteurizer Met	1	1	-	-	-
Required Data on Recorder-Controller Charts Furnished	9	5	2	2	-
Miscellaneous Nuisances Abated	226	172	13	15	26
Total Corrections Made	2,460	1,515	271	476	198

TABLE 4 (Continued)

Activity	Total	Oahu	Hawaii	Maui County*	Kauai
2. Field Test for Cl, pH, Alk., Sed., Abnormal Milk, Pasteurization Equipment, etc.	4,093	741	1,757	1,002	593
3. Samples Collected: Milk, Food, Water, Swabs, etc.	4,762	591	2,105	1,057	1,009
4. Complaints Investigated	1,884	1,452	141	133	158
Warnings Given	1,083	757	179	113	34
Verbal Orders Given	2,106	1,074	339	473	220
Verbal Orders Finished	1,911	937	280	476	218
Total Verbal Orders Unfinished	7,287	6,748	238	262	39
Written Orders Given	68	40	2	9	17
Written Orders Finished	73	50	2	4	17
Total Written Orders Unfinished	433	421	-	8	4
5. Certificates Issued	842	449	57	196	140
6. Permits Issued	206	32	21	68	85
7. Permits Degraded	-	-	-	-	-
8. Permits Suspended, Revoked	6	3	1	-	2
9. Prosecutions	2	2	-	-	-
B. Education					
1. Food, Milk Handlers' Class	14	13	-	-	1
2. Workshops, Meetings	209	129	36	17	27
3. In-Service Training	63	56	3	3	1
C. Technical Review and Consultation Provided	7,143	2,192	730	344	3,877

*Includes the islands of Maui, Molokai and Lanai

TABLE 5

DAILY SUMMARY OF FOOD SERVICE AND FOOD ESTABLISHMENTS
STATE OF HAWAII, 1983

ACTIVITY	TOTAL	ISLAND			
		OAHU	HAWAII	MAUI COUNTY*	KAUAI
INSPECTION, INVESTIGATION, ENFORCEMENT					
A. Insanitary Practices and Hazardous Conditions Abated					
1. Food Source, Wholesome	264	92	47	116	9
2. Food--Original Container, Properly Labeled	210	173	15	13	9
3. Potentially Hazardous Food Meets Temperature Requirements	228	135	20	46	27
4. Facilities to Maintain Product Temperature	104	38	11	15	40
5. Thermometers Provided and Conspicuous	366	240	9	92	25
6. Potentially Hazardous Food Properly Thawed	110	82	4	14	10
7. Unwrapped and Potentially Hazardous Food Not Re-served	9	4	1	4	-
8. Food Protection--Storage, Preparation, Display, Service, Transportation	1,166	852	71	195	48
9. Handling of Food (Ice) Minimized	117	101	1	14	1
10. Food (Ice) Dispensing Utensils Properly Stored	228	174	10	38	6
11. Personnel Infections, Communicable Disease Restricted; T.B. Clearance Card	88	66	13	6	3
12. Hands Washed and Clean, Good Hygienic Practice	190	145	23	15	7
13. Clean Clothes, Hair Restraints	345	313	16	2	14
14. Food Contact Surfaces: Designed, Constructed, Maintained, Installed	508	433	25	45	5
15. Non-Food Contact Surfaces: Designed, Constructed, Maintained, Installed	434	353	30	45	6
16. Dishwashing Facilities: Designed, Constructed, Maintained, Installed	148	110	16	5	17
17. Accurate Thermometers	25	8	4	8	5
18. Single-Service Articles, Storage, Dispensing	137	114	12	9	2
19. No Re-Use of Single-Service Articles	20	15	3	1	1
20. Pre-Flushed, Scraped, Soaked	1	1	-	-	-
21. Wash, Rinse Water: Clean, Proper Temperature	16	12	-	1	3
22. Sanitization Rinse: Clean, Temperature, Concentration	241	126	9	55	51
23. Wiping Cloths: Clean, Use Restricted	53	44	-	8	1
24. Food-Contact Surfaces of Equipment and Utensils Clean	1,009	871	51	59	28
25. Non-Food Contact Surfaces of Equipment and Utensils Clean	1,071	925	71	69	6

TABLE 5 (Continued)

ACTIVITY	Total	Oahu	Hawaii	Maui County*	Kauai
26. Storage, Handling of Clean Equipment-Utensils	222	157	24	39	2
27. Water Source, Safe: Hot & Cold Under Pressure	145	122	2	6	15
28. Sewage and Waste Water Disposal	73	58	3	6	6
29. Plumbing--Installed, Maintained	211	178	6	16	11
30. Plumbing--Cross-Connection, Back Siphonage, Backflow	78	66	4	4	4
31. Toilet & Handwashing Facilities--Number, Convenient, Accessible, Installed	153	100	2	24	27
32. Toilet Rooms, Self-Closing Doors, Good Repair, Clean Hand Cleanser, Sanitary Hand-Drying, Proper Waste Receptacles	598	474	11	60	53
33. Garbage & Refuse Disposal Receptacles Covered: Adequate No., Insect/Rodent Proof, Clean	131	79	8	40	4
34. Outside Storage Area, Enclosures Properly Constructed, Clean: Incineration Controlled	53	37	4	10	2
35. Presence of Insects, Rodents--Outer Openings Protected, Turtles, Other Animals, Proper Insecticides	749	536	38	154	21
36. Floors: Constructed, Drained, Clean, Good Repair, Covering Installation, Dustless Cleaning Method	671	515	40	103	13
37. Walls, Ceiling, Attached Equipment: Constructed, Good Repair, Clean, Surfaces, Dustless Cleaning Methods	811	640	53	94	24
38. Lighting Provided as Required	90	80	1	8	1
39. Rooms and Equipment--Vented as Required	86	64	11	5	6
40. Dressing Rooms--Rooms Clean, Lockers Provided, Facilities Clean	48	47	-	1	-
41. Toxic Items Properly Stored, Labeled, Used	563	478	25	26	34
42. Premises: Maintained, Free of Litter, Unnecessary Articles, Cleaning/Maintenance Equipment Properly Stored, Authorized Personnel	527	395	28	74	30
43. Complete Separation from Living/Sleeping Quarters, Laundry	9	7	1	1	-
44. Clean, Soiled Linen Properly Stored	22	20	1	1	-
Total Corrections Made	12,328	9,480	724	1,547	577
B. Field Test for Cl, pH, Alk., etc.	1,574	317	218	1,039	-
C. Samples Collected: Food, Water, Swabs, etc.	837	474	246	83	34
D. Complaints Investigated	1,122	930	95	58	39

TABLE 5 (Continued)

ACTIVITY	Total	Oahu	Hawaii	Maui County*	Kauai
E. Orders and Warnings					
Warnings Given	3,429	2,680	476	219	54
Verbal Orders Given	10,488	7,406	707	1,710	665
Verbal Orders Finished	9,372	6,583	661	1,547	581
Total Verbal Orders Unfinished	73,884	71,364	850	1,240	430
Written Orders Given	43	40	2	-	1
Written Orders Finished	33	31	2	-	-
Total Written Orders Unfinished	335	333	-	-	2
F. Certificates Issued	4,867	4,194	19	641	13
G. Permits Issued	1,527	846	513	68	100
H. Permits Suspended, Revoked	3	3	-	-	-
I. Prosecutions	1	1	-	-	-
EDUCATION					
A. Food Handlers' Class	78	44	28	3	3
B. Workshops, Meetings	111	90	18	1	2
C. In-Service Training	127	126	1	-	-
TECHNICAL REVIEW AND CONSULTATION PROVIDED	3,274	1,389	866	420	599

*Includes the islands of Maui, Molokai and Lanai

TABLE 6

PUBLIC WATER SYSTEMS*
STATE OF HAWAII, 1983

SYSTEMS	Total	ISLAND					
		Hawaii	Maui	Molokai	Lanai	Oahu	Kauai
Municipal Systems	51	20	8	3	-	6	14
Private Systems	69	18	12	3	2	24	10
State Systems	10	1	2	1	-	3	3
Federal Systems	31	3	4	-	-	22	2
Total	161	42	26	7	2	55	29
Sanitary Surveys**	20	4	3	3	0	6	4

*A Public Water System is defined as a system that has at least fifteen service connections or regularly serves an average of at least twenty-five individuals daily at least sixty days out of the year.

**A Sanitary Survey is an on-site inspection of a public water system by Department personnel using standard procedures to determine the effectiveness of the operation and maintenance of the system in providing safe water to the consuming public.

SUMMARY

The objective of the Vector Control Branch is to prevent outbreaks of vector-borne diseases and serious vector nuisances by program activities designed to control vector populations and guard against the encroachment of new vector species.

Table 1 presents the major program activities. There were increases in 1983 over 1982 in premises inspections, area vector abatement and vector surveillance.

Table 2 presents the small mammal retrieval data by island and activity. This total activity increased substantially during 1983 due to increased rodent-borne disease surveillance throughout the State except Kauai.

Table 3 presents a summary of laboratory tests and examinations conducted to monitor the Statewide status of plague and murine typhus and the prevalence of leptospirosis on Oahu. This activity showed a small increase in 1983.

Table 4 presents a summary of the applied vector research projects conducted in 1983. These projects are conducted to provide the program with a better basis for preventing diseases and to improve vector control methods.

TABLE 1

PRINCIPAL ACTIVITIES OF THE VECTOR CONTROL BRANCH ON THE

ISLANDS OF OAHU, HAWAII, MAUI AND KAUAI

STATE OF HAWAII, 1983

Activity	Total	Island			
		Oahu	Hawaii	Maui	Kauai
Vector Surveillance					
Mosquitoes (Lt-Trap Days)	39,670	21,507	9,803	2,262	6,098
Rodents (Trap-Days)	135,613	28,177	79,312	28,124	-
Flies (Trap-Days)	-	-	-	-	-
Yellowjackets (Trap-Days)	6,560	-	6,377	-	183
Others (Trap-Days)	-	-	-	-	-
Domestic Vector Abatement					
No. Premises Inspected for Survey	20,369	6,308	12,321	1,611	129
No. Additional Premises Inspected During Complaints	4,000	1,900	1,300	500	300
Enforcement					
Demolition Permits Investigated	450	351	16	83	-
Referrals Investigated	68	5	14	-	49
Complaints Investigated	3,312	1,680	1,089	324	219
Mosquitoes	375	273	51	45	6
Rodents	1,769	911	597	187	74
Flies	182	116	40	15	11
Fleas	201	106	71	11	13
Mites/Ticks	65	47	12	4	2
Cockroaches	57	43	6	7	1
Wasps/Bees	315	31	251	33	-
Others	348	153	61	22	112
Area Vector Abatement					
Storm Drains, Pits Trtd. (No.)	37,431	19,369	25	18,037	-
Mosq. Brdg. Areas Insp. (Ac.)*	28,089	10,614	2,059	5,744	9,672
Mosq. Brdg. Areas Trtd. (Ac.)	2,959	162	385	1,386	1,026
Mosq. Adulticiding (Ac.)	223	-	-	217	6
Mosq. Brdg. Containers Trtd. (No.)	32,590	12,557	20,033	-	-
Mosq. Bio Control (No. Fish Stocked)	108,200	5,050	1,100	11,050	91,000
Rodent Area Treated (Ac.)	5,606	9	51	5,546	---
Fly Control (Ac.)	-	-	-	-	-
Yellowjacket Nests Destroyed (No.)	259	-	221	33	5
Cordon Sanitation					
Airport Inspection (Freq.)	24	24	---	---	---
Harbor/Pier Inspection (Freq.)	248	248	---	---	---
Rodent Bait Stations (No.)	2,366	1,901	-	465	-
Mosq. Brdg. Containers Trtd. (No.)	2,078	2,078	-	-	-
Education and Consultation					
People Reached (No.)	8,210	6,407	843	364	596
Vector Identification (No.)	285	257	28	-	-
Source Reduction (No.)	1,674	648	48	660	318
Laboratory Zoonotic Diagnosis					
Macroscopic Examinations	4,545	385	2,525	1,635	-
Serological & Cultural Examinations	4,413	1,279	1,633	1,501	-
Applied Vector Research					
On-Going Projects	9	9	-	-	-

* Ac. = Acre

TABLE 2

TOTAL SMALL MAMMAL RETRIEVALS BY ISLAND, ACTIVITY, AND SPECIES

STATE OF HAWAII, 1983

Island	Activity	Trap-Days*	Total Small Mammals Retrieved	Species								
				Rattus					Mus musculus		Herpestes auropunctatus	
				Total								
				Number	Percent	exulans	norvegicus	rattus	Number	Percent	Number	Percent
Hawaii	Field	79,312	5,303	2,248	42.4	448	389	1,411	1,647	31.1	1,408	26.5
	Cordon	103,829	3,936	698	17.7	301	28	369	1,727	43.9	1,511	38.4
	Total	183,141	9,239	2,946	31.9	749	417	1,780	3,374	36.5	2,919	31.6
Oahu	Field	28,177	1,246	750	60.2	8	473	269	488	39.2	8	0.6
	Cordon	39,136	22	22	100.0	-	10	12	-	-	-	-
	Total	67,313	1,268	772	60.9	8	483	281	488	38.5	8	0.6
Maui	Field	28,124	2,857	2,569	89.9	1,323	-	1,246	262	9.2	26	0.9
	Cordon	29,544	49	23	46.9	3	-	20	19	38.8	7	14.3
	Total	57,668	2,906	2,592	89.2	1,326	-	1,266	281	9.7	33	1.1
Kauai	Field	...	...	...	...	...	...	...	...	...	...	...
	Cordon	...	...	...	...	...	...	...	...	...	...	...
	Total	...	...	...	...	...	...	...	...	...	...	...
Total	Field	135,613	9,406	5,567	59.2	1,779	862	2,926	2,397	25.5	1,442	15.3
	Cordon	172,509	4,007	743	18.5	304	38	401	1,746	43.6	1,518	37.9
	Total	308,122	13,413	6,310	47.0	2,083	900	3,327	4,143	30.9	2,960	22.1

* Trap-Days = No. Traps Set X No. of Days Trapped

TABLE 3

SUMMARY OF ZOONOSIS LABORATORY ACTIVITIES AND FINDINGS BY AREA

STATE OF HAWAII, 1983

Activity	Total	Island				
		Oahu	Hawaii		Maui	Kauai
			East	West		
Macroscopic Examinations						
No. Small Mammals Examined	4,545	385	374	2,151	1,635	...
Ectoparasite Examinations						
No. Fleas Recovered	269	55	112	-	102	...
No. Mites/Lice Recovered	42	42	-	-	-	...
Serological and Cultural Examinations						
Serum Processed and Shipped to Oahu	3,512	-	1,014	867	1,631	...
Plague (mHA)						
No. Sera Tested	430	-	232	193	5	...
No. Positive	-	-	-	-	-	...
Percent Positive	-	-	-	-	-	...
Murine Typhus (micro cf)						
No. Sera Tested	3,025	321	651	557	1,496	...
No. Positive	1,264	97	157	156	854	...
Percent Positive	41.8	30.2	24.1	28.0	57.1	...
Leptospirosis						
No. Cultures Prepared	367	367	...	...	...	...
No. Cultures Positive	57	57	...	...	...	...
Percent Positive	15.5	15.5	...	...	...	...
No. Cultures Typed	64	64	...	...	...	...
No. Slide Agglutination	345	345	...	...	...	...
No. Positive	8	8	...	...	...	...
Percent Positive	2.3	2.3	...	...	...	...
No. Micro Agglutination	182	182	...	...	...	...
No. Positive	3	3	...	...	...	...
Percent Positive	1.6	1.6	...	...	...	...

TABLE 4

APPLIED VECTOR RESEARCH PROJECTS CONDUCTED

BY THE VECTOR CONTROL BRANCH IN 1983

STATE OF HAWAII, 1983

Pest Common Name (Scientific Name)	Project Title	Status/Purpose
Southern House Mosquito (*Culex quinquefasciatus*)	Factors that Limit the Use of Mosquito Fish in Mill Wastewater	Study temporarily suspended because mill wastewater has been temporarily diluted with clean boiler water to give atypical conditions.
Long-Legged Ant (*Anoplolepis longipes*)	Distribution, Abundance and Control of the Long-Legged Ant	Insecticidal dusting stations, poison baits, and residual insecticide spraying were tested for effectiveness. Observations of ant nesting behavior in laboratory and distribution and abundance surveys on-going.
Rodents/Rat Lung Worm (*Rattus* spp./*Angiostrongylus cantonensis*)	Survey of *Angiostrongylus cantonensis* in Rodents, Intermediate Hosts, and Paratenic Hosts on Oahu	Project on-going. Preliminary results indicate that the black slug, *Veronicella leydigi*, has the highest incidence of worms. Other positive organisms include the African and carnivorous snails and rodents.
Western Yellowjacket (*Vespula pensylvanica*)	Yellowjacket Population and Distribution Studies	Project on-going. To determine seasonal history and biology of yellowjackets under local conditions.
Western Yellowjacket (*Vespula pensylvanica*)	Yellowjacket Control by Self-Dusting Stations	Project on-going. To determine effectiveness of self-dusting stations in reducing or controlling yellowjacket populations.
Western Yellowjacket (*Vespula pensylvanica*)	Yellowjacket Control by Poison Bait Stations	Project on-going with HSPA. To determine effectiveness of poison baits in controlling yellowjacket populations especially in sugar canelands.
Refuse Breeding Flies (*Musca domestica*, etc.)	Factors Influencing Fly Populations at Sanitary Landfills in Hawaii	Project suspended due to budgetary constraint.
Non-Biting Midges (*Chironomus hawaiiensis*)	Biological Control of Midges	Project suspended due to budgetary constraint.
American Cockroach (*Periplaneta americana*)	Migratory Behavior of the American Cockroaches	Project on-going. To determine sources of American cockroaches in residential areas.

SUMMARY

The Litter Control Office was established within the Department of Health pursuant to Act 2, First Special Session of the 1977 Legislature. The purpose of the office is to promote, coordinate and implement litter control in the State through public education and awareness, streamlined enforcement, continuing voluntary anti-litter campaigns, and requirements for litter receptacles.

"Litter" means all rubbish, refuse, waste material, garbage, trash, offal, or any debris of whatever kind or description, whether or not it is of value, and includes improperly discarded paper, metal, plastic, glass, or solid waste.

The results produced in the 1983 Community Work Day Program are listed in Table 1. The first Community Work Day (CWD) was held on April 23, CWD #2 was on July 23, and CWD #3 was on October 22. Prior to CWD #1, "Weepul Groups" canvassed their neighborhoods to ask neighbors to promise not to litter and back their promise up with a minimum of 25 cents. These groups, in turn, promised to pick up one bag of litter for the "I won't litter" pledge. Weepuls are small furry creatures with eyes, feet and antennae which symbolize "we the people".

Table 2 shows the number of participating schools and individuals and the amount of aluminum cans and newspapers collected in the 1982 Statewide Recycling Campaign. The campaign was conducted during the month of April on the islands of Oahu, Maui, Kauai, Hawaii, and Molokai. The Governor's Advisory Committee on Litter Control and The Recycling Group, which provided funding and coordination, co-sponsored this campaign.

Table 3 shows the number of litter bags that were made available to community organizations, youth groups, and the general public. Litter bags are available to the public upon request for litter control projects and promotional purposes.

Table 4 lists the various types of educational and promotional litter control materials distributed to organizations, agencies, firms and individuals. The total amounts distributed are shown by type of material.

TABLE 1

1983 COMMUNITY WORK DAY PROGRAM
STATE OF HAWAII

No. of Weepul Groups	92
No. of "I won't litter" Pledges Collected	15,563
Total Dollars Collected by Weepul Groups	$19,667
No. Bags of Litter Picked Up	29,108
No. of Participating Cleanup Groups	694

TABLE 2

STATE RECYCLING CAMPAIGN
STATE OF HAWAII, FEBRUARY 1983

No. of Participating Schools	Approximate No. of Participating Individuals	No. of Pounds of Aluminum Cans Collected	No. of Pounds of Other Materials Collected	Total Dollars Earned
105	125,000	197,000	320,400	$54,024

TABLE 3

LITTER BAGS PROVIDED FOR PUBLIC USE
STATE OF HAWAII, 1983

Type of Bag	Approximate No. Provided
Weepul Car Litter Bags	48,000
State Logo Litter Bags (30-gallon capacity)	11,750
Plain Litter Bags (30-gallon capacity)	27,000
Litter Bags Sponsored by Businesses (30-gallon capacity)	750

TABLE 4

EDUCATIONAL AND PROMOTIONAL LITTER CONTROL MATERIALS DISTRIBUTED
STATE OF HAWAII, 1983

Type of Material	Total Amounts Distributed
Anti-litter Logo Decals	4,865
Bumper Stickers	280
Anti-litter Logo Magnets	1,650
Book Covers	7,840
Printed Materials a/	48,300
Other Promotional Materials	56,700

a/ Flyers, posters, and brochures.

MEDICAL HEALTH SERVICES DIVISION

DIABETES SCREENING SURVEY

Chronic Disease Branch

Statistical Report - 1983

Table 1 shows the total number of persons screened and the new diabetics found by age and sex. Although the percent of positive screenees found remains essentially the same as in previous years, the rate of new diabetics found has increased (4.76 per thousand screenees in 1982 vs. 5.88 in 1983). The increase is seen especially in the 65 and over group, where the rate in 1983 is 10.4, as contrasted with 6.24 in 1982.

Table 2 shows the rates of new diabetics by race and sex. As in previous years, the Caucasians had the lowest rate. The Japanese rate of 9.3 was the highest, almost twice as high as last year's, and the Filipino rate was second highest. (The high rate for Puerto Ricans is not significant because of the small number screened.)

Table 3 shows the rates by island. The high (14.67) rate on Maui probably reflects the fact that many of those screened were elderly Japanese.

Table 4 shows an abnormal blood pressure percentage finding of 29.1%, essentially the same as last year's percent of 28.7.

TABLE 1

DEPARTMENT OF HEALTH
CHRONIC DISEASE BRANCH

DIABETES SCREENING SURVEY BY AGE AND SEX FOR JULY, 1982 - JUNE, 1983

	TOTAL SCREENED			POSITIVE SCREENEES						NEW DIABETICS					
				NUMBER			PERCENT			NUMBER			RATE *		
	TOTAL	MALE	FEMALE	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F
ALL AGES	5,946	2,516	3,430	94	34	60	1.58	1.35	1.74	35	9	26	5.88	3.57	7.58
UNDER 25	464	214	250	0	0	0	0.00	0.00	0.00	0	0	0	0.00	0.00	0.00
25-44	1,316	526	790	12	4	8	0.91	0.76	1.01	1	0	1	0.75	0.00	1.26
45-54	749	286	463	6	3	3	0.80	1.04	0.64	2	1	1	2.67	3.49	2.15
55-64	1,310	531	779	24	7	17	1.83	1.31	2.18	10	1	9	7.63	1.88	11.55
65-OVER	2,107	959	1,148	52	20	32	2.46	2.08	2.78	22	7	15	10.44	7.29	13.06

*Number of new diabetics per thousand screenees.

TABLE 2

DEPARTMENT OF HEALTH
CHRONIC DISEASE BRANCH

DIABETES SCREENING SURVEY BY RACE AND SEX FOR JULY, 1982 - JUNE, 1983

	TOTAL SCREENED			POSITIVE SCREENEES						NEW DIABETICS					
				NUMBER			PERCENT			NUMBER			RATE *		
	TOTAL	MALE	FEMALE	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F
ALL RACES	5,946	2,516	3,430	94	34	60	1.58	1.35	1.74	35	9	26	5.88	3.57	7.58
JAPANESE	2,685	1,047	1,639	54	17	37	2.01	1.62	2.25	25	5	20	9.30	4.77	12.20
CAUCASIAN	1,357	619	738	6	4	2	0.44	0.64	0.27	2	1	1	1.47	1.61	1.35
HAWAIIAN, PART-HA	531	199	332	10	5	5	1.88	2.51	1.50	1	1	0	1.88	5.02	0.00
CHINESE	315	162	153	2	2	0	0.63	1.23	0.00	0	0	0	0.00	0.00	0.00
FILIPINO	540	267	273	12	4	8	2.22	1.49	2.93	4	2	2	7.40	7.49	7.32
KOREAN	55	22	33	0	0	0	0.00	0.00	0.00	0	0	0	0.00	0.00	0.00
PUERTO RICAN	47	19	28	2	1	1	4.25	5.26	3.57	1	0	1	21.27	0.00	35.71
OTHER & UNSPEC.	415	181	234	8	1	7	1.92	0.55	2.99	2	0	2	4.81	0.00	8.54

*Number of new diabetics per thousand screenees.

TABLE 3

DEPARTMENT OF HEALTH
CHRONIC DISEASE BRANCH

DIABETES SCREENING SURVEY BY ISLAND FOR JULY 1, 1982 - JUNE 30, 1983

LOCATION	TOTAL SCREENED	NO. POSITIVE DEXTROSTIX	NO. POSITIVE AUTOANALYZER	NEW DIABETICS	RATE PER 1000 SCREENED
OAHU	3,281	98	59	14	4.26
HAWAII	1,722	32	20	10	5.80
MAUI	545	23	0	8	14.67
KAUAI	234	8	5	2	8.54
MOLOKAI	164	10	10	1	6.09
OTHERS	0	0	0	0	0.00
TOTAL	5,946	171	94	35	5.88

TABLE 4

BLOOD PRESSURE SCREENING

Fiscal Year 1982-83

Total Screened/	6,182
Abnormal Hypertensives Screened (includes Known Hypertensives)	1,801
Percent Abnormal	29.1%

EMERGENCY MEDICAL SERVICES SYSTEMS BRANCH

Summary 1983

The Emergency Medical Services Systems Branch (EMSS) is responsible for the administration and coordination of the state comprehensive emergency medical services system through a cohesive network of components that are designed to reduce morbidity and mortality by assuring the availability and accessibility of the best possible prehospital emergency medical services statewide.

Emergency ambulance services are provided on each of the six major islands within identified geographic areas that allow a response time standard of 95% of all calls responded to within an average of twenty minutes. EMS training programs for Emergency Medical Technicians, Mobile Intensive Care Technicians, and public safety personnel (county and state fire, police, and life guards) are provided through the Community Colleges on Oahu, Maui, Kauai, and Hawaii. The statewide MEDICOM medical communication system utilizes complex communication equipment that provides voice communication between ambulance personnel and hospitals. This communication system is essential so that physicians may provide medical direction in the delivery of prehospital emergency medical care.

Table 1 shows the number of emergency ambulance units located on each island and the level of service provided.

Table 2 shows the number of calls responded to by emergency ambulance units on each island during calendar year 1983.

TABLE 1
EMERGENCY AMBULANCE UNITS/LEVEL OF SERVICES BY ISLAND
STATE OF HAWAII, FISCAL YEAR 1982-83

Island	Level of Service		Total
	BLS	ALS	
Oahu	2	11	13
Hawaii	4	4	8
Maui	-	4	4
Molokai	-	1	1
Lanai	1	-	1
Kauai	1	2	3

BLS = Basic Life Support
ALS = Advanced Life Support

TABLE 2
EMERGENCY AMBULANCE CALLS RESPONDED TO BY ISLAND
STATE OF HAWAII, CALENDAR YEAR 1983

Island	1981	1982*	1983*
Oahu	24,441	27,784	25,818
Hawaii	4,085	4,431	4,412
Maui	3,154	3,375	3,249
Molokai	305	305	294
Lanai	50	56	38
Kauai	1,545	1,618	1,451
Total	33,580	37,569	35,262

*Preliminary data based on manual record count

SUMMARY

The Hospital and Medical Facility Licensing and Medicare Certification Branch of the Medical Health Services Division focuses on quality of care delivered in health facilities and on the number of facilities required to provide a satisfactory level of health care. Regulations for the various types of facilities are prepared and adopted following public hearings, and revisions of regulations are an ongoing policy. Regulations are enforced by inspections, surveys and consultations performed by specially trained surveyors composed of multi-disciplinary specialists. Licensing of facilities and certification for participation in the Federal Medicaid and Medicare Programs are a major function of the Branch. Facilities which are included in the licensing and certification process include in the order of intensity of care necessary: Acute Hospitals, Skilled Nursing Facilities, Intermediate Care Facilities, and "mixed" or "swing" bed facilities where intermediate care and skilled nursing beds are located in one facility and used as necessary depending on the condition of the patient. Acute Hospitals may have distinct parts allocated to skilled nursing and intermediate care beds. The Branch also certifies Independent Laboratories, Home Health Agencies, End Stage Renal Disease Units, and Independent Physical Therapy Providers, Freestanding Surgical Outpatient Facilities, Hospices, and Comprehensive Outpatient Rehabilitation Facilities. An equally important function of the Branch is the licensing of many of these same facilities as well as Day Hospitals, Freestanding Birthing Facilities, Special Treatment Facilities, Family Care Homes, Residential Care Homes. Tables showing the number of facilities and beds under each category for the State are given in this section.

Table 1

NUMBER AND TYPE OF FACILITY BY ISLAND

STATE OF HAWAII, 1983

Type of Facility	State Total	Oahu	Hawaii	Kauai	Lanai	Maui	Molokai
Hospitals	28	15	5	3	1	3	1
Skilled Nursing Facilities	29	17	5	3	1	2	1
Intermediate Care Facilities	26	16	3	3	1	2	1
Residential Care Homes	16	11	1	3			1
Family Care Homes	272	231	17	11		13	
Special Treatment Facilities	18	13	1	2		2	
Independent Laboratories	40	29	6			5	
Home Health Agencies	9	3	2	1	1	1	1
End Stage Renal Disease	8	5	1	1		1	
Rehabilitation Facilities	1	1					
Physical Therapists	16	12	2			2	
Comprehensive Outpatient Rehabilitation Facilities	1	1					
Freestanding Ambulatory Surgical Centers	3	3					
Freestanding Birthing Centers	1	1					
Day Hospitals	3	3					
Grand Total	471	361	43	27	4	31	5

Table 2

BED COUNT IN FACILITIES BY ISLAND

STATE OF HAWAII, 1983

Type of Facility	State Total	Oahu	Hawaii	Kauai	Maui	Molokai	Lanai
Hospitals:							
Acute	2833	2267	265	133	153	9	6
Skilled Nursing Facilities	322	246	70	6			
Intermediate Care Facilities	234	142	84		8		
Swing (ICF/SNF)	355	95	8	130	93	21	8
Freestanding:							
Skilled Nursing Facilities	392	272			120		
Intermediate Care Facilities	1038	670	244		124		
Swing (ICF/SNF)	982	774		115	93		
Residential Care Homes	549	455	13	67		14	
Family Care Homes	1082	907	82	42	51		
Special Treatment Facilities	490	402	14	18	56		
Grand Total Bed Count	8277	6230	780	511	698	44	14

Table 3

LICENSED BEDS BY YEAR AND TYPE OF FACILITY

STATE OF HAWAII, 1983

Year	Acute General/ Hospitals	Skilled Nursing Facilities	Intermediate Nursing Facilities	Swing SNF/ICF	Intermediate Care Facility/ Mental Retardation	Care Homes	Special Treatment Facilities	End Stage Renal Disease
		(SNF)	(ICF)					
1978	2788	1480	735	149	608	1460	246	73
1979	2748	1383	844	257	608	1444	531	73
1980	2775	1042	952	607	583	1573	617	93
1981	2359	822	903	901	334	1555	514	93
1982	2776	854	1296	1109	362	1614	514	93
1983	2833	714	1272	1337	370	1631	490	93

LABORATORY SERVICES

The Laboratories Branch provides services to other departmental programs, private physicians, institutions and other governmental programs to enhance their effectiveness for public health and safety, to control the quality of the environment and to enforce the various state laws and regulations.

The services provided include air chemistry; clinical microbiology (bacteriology, mycobacteriology, mycology, parasitology, and serology); food and drug analysis; milk and milk products analyses; pesticide analysis; sanitary microbiology and chemistry; toxicology; and virology. Also, the branch provides training opportunities to other laboratory personnel in the state.

During fiscal year 1983, the branch performed a total of 594,632 examinations for the 240,121 specimens that were received. Some of the significant activities during this period were the detection of ethylene dibromide, dibromochloropropane, and trichloropropane in some of the drinking water wells on the islands of Oahu, Maui and Kauai; the detection of ethylene dibromide in grain food products; continuation of the monitoring of Oahu's milk supply for heptachlor epoxide and other food items, primarily vegetable, for pesticides; continuation of the investigation of herpes simplex in pregnant women; and the establishment of an air monitoring network for the geothermal area on the island of Hawaii.

Also, during the period, the branch was recertified by FDA to perform microbiological and chemical analyses on shellfish and milk; recertified by EPA to perform microbiological and chemical analyses on potable and non-potable waters; recertified by EPA to perform air pollution monitoring analysis; continued to serve as the Salmonella typhi Phage Typing Center and as the Influenza Virus Surveillance and Reference Laboratory for the Pacific Basin for the Center for Disease Control and the World Health Organization, respectively; and serve as a reference laboratory in medical bacteriology for the Center for Disease Control.

TABLE 1

NUMBER OF SAMPLES SUBMITTED TO VARIOUS UNITS OF THE LABORATORIES BRANCH AND NUMBER OF BACTERIOLOGICAL, PARASITOLOGICAL, SEROLOGICAL AND CHEMICAL EXAMINATIONS PERFORMED UPON THEM BY TYPE OF SPECIMEN AND ISLAND

STATE OF HAWAII, FY 1983

Diseases or Type of Samples	All Laboratories		Oahu		Hawaii		Maui		Kauai	
	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations
Total	240,121	594,632	209,932	543,663	10,810	20,667	12,468	21,014	6,911	9,288
Microbiology										
Enteric	3,950	14,783	1,734	10,850	832	1,498	1,328	2,309	56	126
Gonorrhea	103,241	89,494	96,894	84,210	1,605	1,375	2,932	2,349	1,810	1,560
Staphylococcus Phage Typing	1,166	3,520	1,166	3,520	-	-	-	-	-	-
Streptococcus	10,599	11,396	6,975	8,089	1,338	889	-	-	2,286	2,418
Tuberculosis	8,090	48,449	6,832	44,279	1,258	4,170	-	-	-	-
Miscellaneous Bacteriology	5,218	19,108	5,087	18,455	97	531	28	91	6	31
Mycology	664	4,713	396	3,564	184	702	47	271	37	176
Parasitology	5,491	21,388	2,365	10,793	713	2,154	2,152	7,609	261	832
Viral Isolation	2,549	10,387	2,549	10,387	-	-	-	-	-	-
Serology: Syphilis	23,029	24,285	17,032	19,325	1,138	995	3,868	3,097	991	868
Non-Syphilis	244	596	-	-	235	566	9	30	-	-
Viral & Rickettsial ...	8,035	16,404	8,035	16,404	-	-	-	-	-	-
Sanitary Microbiology										
Drinking Water	5,506	12,584	827	2,382	2,077	4,205	1,677	3,977	925	2,020
Pollution Water	851	4,597	528	3,123	201	936	74	353	48	185
Food Products	5,058	11,282	4,171	8,664	450	1,392	209	575	228	651
Food Poisoning	207	2,808	207	2,808	-	-	-	-	-	-
Salmonella Study	300	723	300	723	-	-	-	-	-	-
Sanitary Chemistry										
Drinking Water	816	8,104	727	8,047	89	57	-	-	-	-
Pollution Water	1,180	13,588	1,174	13,566	-	-	-	-	6	22
Food Products	856	2,361	60	551	395	1,058	144	353	257	399
Pesticide	2,603	193,789	2,603	193,789	-	-	-	-	-	-
Toxicology	943	9,547	943	9,547	-	-	-	-	-	-
Clinical Chemistry (INH)...	4,482	6,184	4,284	6,045	198	139	-	-	-	-
Air Pollution Chemistry ...	45,043	64,542	45,043	64,542	-	-	-	-	-	-

TABLE 2

INCIDENCE OF SALMONELLA BY TYPE AND AGE
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - JULY 1982 TO JUNE 1983

Group	Serotype	All Ages Total	Less than Six Months	Six Months to One Year	One Year to Three Years	Three Years to Ten Years	Ten Years to Twenty Years	Twenty Years and Over	Unknown
		493	78	60	71	42	36	137	69
A	paratyphi A	4						1	3
	paratyphi A var durazzo	1						1	
B	agona	28	4	5	5	3	2	9	
	bredeney	1	1						
	derby	11		2		1		4	4
	hato	1			1				
	heidelberg	20		4	3	1	4	3	5
	java	1				1			
	saint paul	4		1	2			1	
	san-diego	1							1
	schwarzengrund	6			1	2		3	
	stanley	1		1					
	typhimurium	103	12	7	20	17	6	30	11
	typhimurium var copenhagen	25		2	2		3	8	10
C_1	braenderup	3			1	1		1	
	eimsbuettel	1		1					
	infantis	21	1	4	5	2	1	4	4
	lille	1				1			
	mbandaka	1					1		
	montevideo	14	3		2	1	1	5	2
	nienstedten	5		2	1	1		1	
	oranienburg	5	1		1			1	2
	oslo	19	5	2	1		4	3	4
	singapore	7	1	1		1		3	1
	tennessee	3	1	1				1	
	thompson	19	1	1	5	4	2	6	
C_2	albany	3						2	1
	bovis-morbificans	1		1					
	hadar	1						1	
	manhattan	2			2				
	muenchen	5	2		2				1
	newport	22	2	5	1	1	1	4	8
D	enteritidis	4	1					3	
	javiana	1					1		
	panama	10		1	3	3	2	1	
	pensacola	1						1	
	typhi phage type:A	2						2	
	typhi phage type:E_2	1						1	
	typhi phage type:E_1	2					2		
	typhi phage type:E_2	1						1	
	typhi phage type:H_1	6	1				2	1	2
	typhi - degraded	1			1				
E_1	anatum	11	2	1				8	
	give	7	3	2				1	1
	meleagridis	1							1
	muenster	1		1					
	weltevreden	70	29	7	7	1	4	18	4
E_2	drypool	1	1						
	lanka	3	1	1				1	
	newington	2			1			1	
E_4	senftenberg	4	1	1	1			1	
F	aberdeen	12	3	4	1	1			3
G_1	worthington	3		1				2	
G_2	cubana	1						1	
I	gaminara	1	1						
K	cerro	1		1					
O	adelaide	1	1						
	alachua	1						1	
S	waycross	1							1
U	houton	2			2				
	Salmonella (rough)	1						1	

TABLE 3

INCIDENCE OF SALMONELLA BY TYPE FROM NONHUMAN SOURCES
CENTRAL LABORATORY ON OAHU
STATE OF HAWAII - JULY 1982 TO JUNE 1983

Group	Salmonella Serotype	SOURCE													
		TOTAL	Alligator	Amphibian	Ape	Avian	Bovine	Feline	Equine	Gecko	Iguana	Lizard	Porcine	Poultry	Rabbit
B	agona	2											2		
	derby	14											14		
	hato	1					1								
	heidelberg	2											2		
	san-diego	2				2									
	typhimurium	20				12	2	1					5		
	typhimurium var copenhagen ...	4											4		
C_1	branderup	1											1		
	lille	10					10								
	mbandaka	2											2		
	montevideo	6	3				3								
	oranienburg	5		4										1	
	oslo	2							2						
	tennessee	3					3								
C_2	manhattan	3											3		
	newport	2						2							
C_3	albany	4					2						2		
D	enteritidis	19				19									
E_1	amager	1		1											
	anatum	6					6								
	lexington	1					1								
	london	2											2		
	meleagridis	9					4						5		
	weltevreden	9								1			6		2
E_2	drypool	2					2								
	newington	3					3								
C_1	poona	1										1			
C_2	cubana	2					2								
	worthington	2											2		
I	nottingham	1									1				
K	cerro	2					2								
	lanka	2			2										
L	minnesota	5					3					2			
S	waycross	5						1		4					
U	houten	6								6					
X	phoenix	2									2				
	TOTAL	163	3	5	2	33	44	4	2	11	3	3	50	1	2

TABLE 4

INCIDENCE OF PARASITES FROM HUMANS
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - JULY 1982 TO JUNE 1983

Total Number of Specimens Examined	Total Number of Specimens Positive	Total Number of Parasites Found
1,355	472	738

INTESTINAL PARASITES FOUND

ORGANISM	Number Found	ORGANISM	Number Found
PROTOZOA		HELMINTHS	
Sarcodina (Amebae)		Nematoda (Round Worms)	
Entamoeba histolytica	31	Enterobius vermicularis	3
Entamoeba hartmanni	10	Trichuris trichiura	240
Entamoeba coli	51	Ascaris lumbricoides	89
Endolimax nana	55	Hookworm	115
Iodamoeba butschlii	2	Strongyloides stercoralis	17
Mastigophora (Flagellates)		Cestoda (Tapeworms)	
Giardia lamblia	67	Taenia sp.	3
		Taenia saginata	1
		Hymenolepis nana	7
		Diphyllobothrium latum	8
		Dipylidium caninum	1
		Trematoda (Flukes)	
		Fasciola sp.	1
		Clonorchis sinensis	35
		Schistosoma japonicum	1
		Paragonimus westermani	1

TABLE 5

INCIDENCE OF GRAM NEGATIVE DIPLOCOCCUS
FROM GONORRHEA CULTURES SUBMITTED

CENTRAL LABORATORY ON OAHU
STATE OF HAWAII
JULY 1982 TO JUNE 1983

	Number of Specimens			
	Positive	Negative	Unsatisfactory	TOTAL
Culture	3,574	91,691	1,629	96,894

TABLE 6

INCIDENCE OF MYCOBACTERIA FROM HUMAN SOURCES
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII
July 1982 - June 1983

Mycobacterium	Specimen Source					
	Total	Sputum	Urine	Bronch	Gastric	Miscellaneous
Total	819	773	7	14	9	16
tuberculosis	156	146	-	3	2	2-Thoracentesis 1-Pericardial 1-Pleural Fld 1-R Hip
Group I (Photochromogen)						
kansasii	8	7	-	1	-	-
marinum	2	-	-	-	-	1-Forearm 1-Rt Finger
Group II (Scotochromogen)						
flavescens	26	24	1	-	1	-
gordonae	214	205	5	2	2	-
scrofulaceum	47	46	-	-	-	1-Lt Hip
szulgai	3	3	-	-	-	-
Group III (Nonphotochromogen)						
avium-intracellulare complex	149	136	-	6	1	1-LUL 2-Lingula wash 1-Brushing 1-Lt Lung 1-Pleural
gastri	7	7	-	-	-	-
terrae complex	44	42	-	-	2	-
triviale	4	3	-	-	1	-
xenopi	1	1	-	-	-	-
Group IV (Rapid Grower)						
chelonei	53	52	-	1	-	-
fortuitum	103	99	1	1	-	1-Rt Lung Absc 1-PO Exit Site
vaccae	2	2	-	-	-	-

TABLE 7

VIRAL ISOLATIONS
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - FISCAL YEAR 1983

TYPE OF SPECIMEN	NUMBER OF SPECIMENS			NUMBER OF EXAMINATIONS
	Received	Positive	Negative	
Throat Swabs	222	29	193	251
Fecal	60	9	51	69
Spinal Fluid	81	2	79	83
Blood	3	0	3	3
Tissue	5	0	5	5
Other	1,178	208	970	1,386
TOTAL	1,549	248	1,301	1,797

VIRAL AGENTS ISOLATED:

	NUMBER ISOLATED
1) Throat Swabs:	
Adenovirus Type (?)	1
Coxsackievirus Type B-4	1
ECHOvirus Type 6	1
ECHOvirus Type 11	6
ECHOvirus Type 30	2
Herpesvirus hominis	2
Influenza A/Bangkok/1/79	16
2) Rectal/Fecal Swabs:	
Coxsackievirus Type B-4	1
ECHOvirus Type 11	3
ECHOvirus Type 14	2
ECHOvirus Type 30	1
3) Cerebrospinal Fluids:	
Coxsackievirus Type B-2	1
ECHOvirus Type 11	1
4) Miscellaneous Specimens:	
Coxsackievirus Type B-2	1 (From an unidentified swab)
ECHOvirus Type 30	1 (From a nasopharyngeal swab)
Herpesvirus hominis	207 (143 from genital area, 36 from skin, 2 from drainage swabs, 2 from lesion swabs, 1 from a nasal swab, 23 from unidentified swabs)
Influenza A/Bangkok/1/79	1 (From an unidentified swab)

TABLE 8

VIRAL SEROLOGIES
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - FISCAL YEAR 1983

TYPE OF EXAMINATION	NUMBER OF SPECIMENS			NUMBER OF EXAMINATIONS
	Received	Positive	Negative	
Complement Fixation	802	14	788	802
Hemagglutination-Inhibition	769	4	765	769
Hepatitis B Surface Antigen (RPHA)	0	0	0	0
Rubella (PHA & EIA)	148	*	*	148
TOTAL	1,719	18	1,553	1,719
Rabies (FRA)	8	0	[illegible]	8

VIRAL AND RICKETTSIAL POSITIVES a/

Complement Fixation Antigens:	NUMBER OF POSITIVES a/
Chlamydia	1
Cytomegalovirus (AD-169)	2
Herpesvirus hominis Type 1	2
Mycoplasma pneumoniae	3
Typhus	5
Varicella-Zoster	1
Hemagglutination-Inhibition Antigens:	
Influenza A/Bangkok/1/79	3
Rubella	1

*Screening tests for Rubella, Positive and Negative Terminology not applicable in this context.

a/ Paired sera showing four-fold or greater rise in antibody titer.

PUBLIC HEALTH NURSING BRANCH

SUMMARY

Primary prevention and health promotion are the foundation of public health nursing practice. To accomplish this goal, public health nurses provide generalized comprehensive, and coordinated nursing services to individuals, families and groups at their place of residence, in private and parochial schools, care homes, day care centers, clinics, work sites, and community facilities. The nursing staff participates actively and collaboratively as members of multidisciplinary health care teams to meet the consumers' health needs. As public health nurses provide nursing care in the community, their foremost concern is the attainment and maintenance of optimal health states of Hawaii's residents.

Table 1 shows the number of cases served and the total visits made statewide. Over the past year, we have seen a 7% decrease in caseload - from 36,514 to 33,841 cases. Case increases have been noted in the infant preschool children and adult health categories with decreases in all other service programs. Visits showed a 12% decrease from 132,429 to 117,105 visits. Unlike the caseload data, substantial visit increases have been noted in the Other Communicable Disease category as referrals and the intensity of follow-up services for Hansen's Disease cases have increased. All other service program categories showed decreases in the number of Public Health Nurse visitations. More visits per case were made to those with disabilities and/or pathological conditions over those who received Health Guidance services only.

Table 2 shows the type of clinic, the number of clinics, and the total number of clinic attendance statewide. There was a 7% decrease in the number of clinic sessions over the past year from 4,989 to 4,650 sessions. The clinic attendance showed a decrease by 18% from 116,128 to 94,822 visits. Attendance at these clinics is arranged so that clients may be given the opportunity to receive in-depth consultation and education services.

Table 3 shows the public health nursing services provided to private and parochial schools and home visits made to all school age children. There was a decrease of school visits by 21% from 1,540 visits to 1,214 visits over the past year. Home visits to school age children decreased by 15% from 13,774 to 11,709.

Table 4 shows the visits made to preschool age children. Data shows that 32% of all home visits are primarily for this age group. Clinic data displayed on Table 2, likewise, shows 49% of all clinic sessions to be for well-children services.

Table 5 displays the number of visits made to care homes and home visits to those age 60 years and over. As the aged population increases, nursing intervention services will show a concomitant increase in the future.

TABLE 1

CASES ADMITTED TO PUBLIC HEALTH NURSING SERVICE AND VISITS MADE BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1982-83

TYPE OF HOME AND OFFICE NURSING SERVICE	STATE		Honolulu		Hawaii		Kauai		Maui	
	Cases a/	Visits b/	Cases a/	Visits b/	Cases a/	Visits b/	Cases a/	Visits b/	Cases a/	Visits b/
Maternity	983	2,599	658	2,060	133	208	125	192	67	139
Infant & Preschool Child Health	14,351	44,135	8,788	31,387	2,804	6,114	795	1,757	1,964	4,877
School Age Child c/	1,772	4,766	1,205	3,379	215	552	80	148	272	687
Adult Health	3,519	7,385	2,815	5,673	102	492	291	504	311	716
Tuberculosis d/	7,509	25,205	3,766	8,362	1,313	6,429	656	2,586	1,774	7,828
Other Communicable Disease d/	428	1,403	100	345	127	473	13	143	188	442
Mentally Retarded	116	668	99	538	4	69	1	4	12	57
Other Developmental Disabilities	748	6,378	495	4,380	109	1,011	13	183	131	804
Other Crippled Children	1,196	10,122	626	6,623	334	1,869	70	449	166	1,181
Chronic Diseases	2,671	10,047	1,796	5,803	168	1,031	157	594	550	2,619
Emotional Problems	363	1,264	327	1,078	10	68	2	18	24	100
All Others	112	508	72	339	14	70	4	8	22	91
Not Home/Not Found	73	2,625	61	2,183	5	155	2	16	5	271
TOTALS	33,841	117,105	20,808	72,150	5,338	18,541	2,209	6,602	5,486	19,812

a/ Cases: Individuals admitted to nursing service for a particular condition.
b/ Visits: Personal contacts with health content which take place in a home or the nurse's office.
c/ Health Guidance Only. Excludes visits to school children in other diagnostic categories.
d/ Includes diagnosed cases and contacts.

TABLE 2

CLINICS CONDUCTED BY PUBLIC HEALTH NURSING SERVICE BY TYPE OF CLINIC, NUMBER OF SESSIONS AND ATTENDANCE BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1982-83

TYPE OF CLINIC	STATE		Honolulu		Hawaii		Kauai		Maui	
	Session	Attendance	Session	Attendance	Session	Attendance	Session	Attendance	Session	Attendance
Well Child	2,282	22,489	978	11,971	783	6,275	184	1,116	337	3,127
Adult Health	488	8,225	297	6,662	29	384	151	888	11	291
Cardiac a/	21	238	1	12	10	137	4	36	6	53
Child Development - LD	1	35	1	35	-	-	-	-	-	-
Neurology a/	10	70	-	-	8	54	-	-	2	16
Orthopedic a/	14	220	-	-	10	191	-	-	4	29
Otologic - Speech & Hearing a/	4	77	-	-	-	-	-	-	4	77
Other Crippled Children including Pediatric a/	6	69	-	-	4	58	-	-	2	11
Tuberculosis b/	1,596	59,377	730	36,056	342	7,354	200	6,282	324	9,685
Venereal Disease	1	30	1	30	-	-	-	-	-	-
Other Communicable Disease	-	-	-	-	-	-	-	-	-	-
Immunization	19	126	18	92	1	34	-	-	-	-
Leprosy	20	246	-	-	10	137	4	32	6	77
Others	188	3,620	68	664	10	83	53	1,301	57	1,572
TOTALS	4,650	94,822	2,094	55,522	1,207	14,707	596	9,655	753	14,938

a/ See Crippled Children Branch data
b/ This does not include Honolulu Chest Clinic

TABLE 3

PUBLIC HEALTH NURSING SERVICE TO SCHOOLS BY COUNTY a/

STATE OF HAWAII

FISCAL YEAR 1982-83

TYPE OF SCHOOL HEALTH PROGRAM	STATE	Honolulu	Hawaii	Kauai	Maui
Visits to Schools b/	1,214	1,008	110	40	56
Home Visits Made to School Age Children	11,709	6,387	2,514	599	2,209
TOTALS	12,923	7,395	2,624	639	2,265

a/ Excludes Public Schools
b/ All diagnostic categories

TABLE 4

PUBLIC HEALTH NURSING SERVICE TO DAY CARE CENTERS BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1982-83

TYPE OF DAY CARE PROGRAM	STATE	Honolulu	Hawaii	Kauai	Maui
Visits to Day Care Centers*	234	126	58	8	42
Home Visits Made to Preschool Age Children	37,531	28,455	4,282	1,173	3,621
TOTALS	37,765	28,581	4,340	1,181	3,663

*All diagnostic categories

TABLE 5

PUBLIC HEALTH NURSING SERVICE TO CARE HOMES BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1982-83

TYPE OF CARE HOME PROGRAM	STATE	Honolulu	Hawaii	Kauai	Maui
Visits to Care Home*	506	352	35	27	92
Home Visits Made to Elderly over 60	11,075	6,693	1,371	786	2,225
TOTALS	11,581	7,045	1,406	813	2,317

*All diagnostic categories

SUMMARY

The goal of the Nutrition Branch is to reduce the risk of disease associated with diet through education, early detection of nutritional problems and intervention. Nutrition is one of the key factors in the promotion of health, in the prevention of disease and in improving the quality of life.

Services of the Nutrition Branch are divided into three major categories:

1) nutrition education for the public,
2) consultations to agencies and individuals and inspections of hospitals and other facilities, and
3) nutrition screening and assessment.

Preventive aspects of nutrition are emphasized by providing sound, up-to-date nutrition information through pamphlets, newsletters, and news articles. Nutrition information is provided to the public through talks to community and student groups, workshops, exhibits at health fairs, T.V. and radio programs, and telephone calls. There was a decrease in the number reached through nutrition education from the previous year due to budgetary constraints and vacant Public Health Nutritionist positions on Maui and Hawaii.

Nutrition consultations and direct services are provided to other programs within the department, other governmental agencies, community groups, professionals and the general public. The Public Health Nutritionists provide consultation and licensure services to hospitals, skilled nursing and intermediate care facilities, special treatment facilities, care homes and day care centers to assist them in meeting dietary standards according to State and Federal regulations.

The Special Supplemental Food Program for Women, Infants and Children (WIC Program) funded by the United States Department of Agriculture is administered by the Nutrition Branch. This program provides nutrition screening and assessment, nutrition education, and nutritious food to low income pregnant women, nursing mothers, infants and children up to age 5, who are at nutritional risk. In 1983, two thousand new participants were enrolled in the WIC Program. The total number of people served was 6,095.

TABLE 1
NUTRITION BRANCH SERVICES
STATE OF HAWAII: 1983

Type of Nutrition Service	Number of Sessions	Number Reached or Participants
Nutrition Education		
Talks to community groups	40	1,510
Talks to students	29	1,039
Talks to senior citizens groups	18	781
Department of Health groups	11	184
Workshops	59	1,603
Radio and TV	12	
Health Fairs	19	
Nutrition Branch leaflets and booklets		93,574
Newsletters		4,586

Consultations and Inspections	Number
Care Homes	
Inspections	293
Consultations and visits	154
Hospitals, Skilled Nursing Facilities and Intermediate Care Facilities	
Medicare Certifications	33
Consultations	27
Special Treatment Facilities	
Inspections	18
Consultations and visits	14
Day Care Centers	
Consultations	78
Other Agencies and Individuals	
Consultations	1,656
Department of Health	
Consultations	354

Nutrition Assessment & Diet Counseling	Number Reached
Special Supplemental Food Program for Women, Infants and Children (WIC)	6,095

MENTAL HEALTH DIVISION

MENTAL HEALTH DIVISION

The Mental Health Division provides both inpatient and outpatient services for a wide range of problems affecting disparate populations. The utilization patterns of services provide significant leads to understanding the nature, severity, and determinants of mental illness. Figure 1 displays the trends in various categories of patients: actives, admissions, terminations, and unduplicated counts.

The format of the tables in the following summary for calendar year 1983 is different from that of the published reports for calendar years 1974-1981 but the same as for the 1982 report. The reader may refer to the 1974-1981 reports for examination of demographic statistical information related to diagnosis, and to the 1982 and 1983 reports for demographic information related to problems on admission.

Tables 1, 1A, and 1B represent the total patients in treatment as of the end of the year by age and problems on admission. The number of active patients decreased somewhat during the last two years.

Table 2 represents a breakdown of division of services (inpatient versus outpatient) by location of patient residence. These figures represent a population-based utilization of mental health services by catchment area.

Tables 3A and 3B are both further explications of this inpatient/outpatient breakdown by age and problems on admission. The usual relatively large proportion of severely ill patients are treated in an inpatient setting.

Tables 4, 5, and 6 display figures on admissions to the total State and to the various service areas for the entire calendar year. These figures represent the incidence of cases over a period of time. The breakdown is by problems on admission, age, ethnicity, catchment area, and source of referral. Combined with past report tables, these tables provide information on trends in the types of problems that are occurring, their frequency of occurrence, and characteristics of people who have these problems.

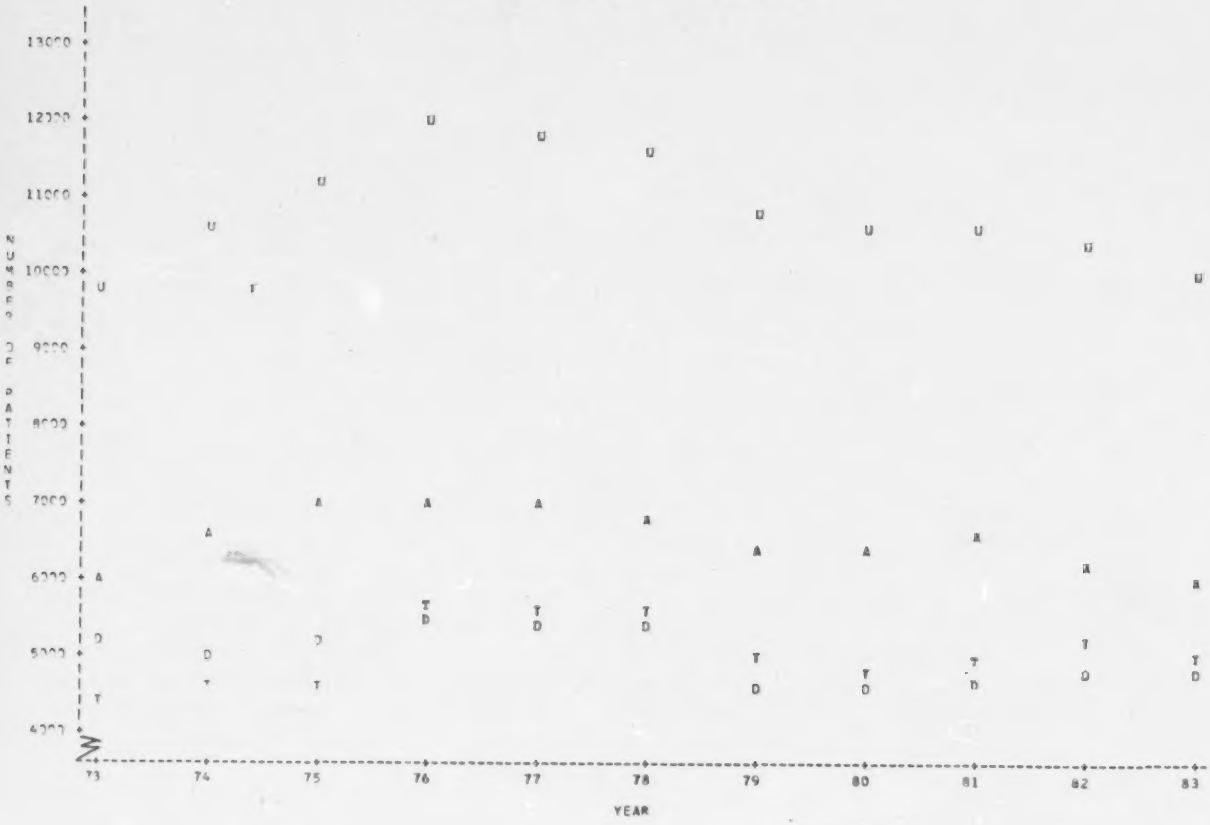
Table 7 shows unduplicated total admissions for the year broken down by ethnicity and problems on admission. The mean age on admission for each ethnic group having a particular problem is included. Tables 7A and 7B show the same data for males and females, respectively.

Table 8 represents terminations during the year by age and problems on admission. Table 9 displays terminations during the year for geographic and service delivery units by dispositions on termination.

Table 10 represents an unduplicated count of patients served in all facilities by problems on admission and current or termination age during the period January through December, 1983.

FIGURE 1. MENTAL HEALTH DIVISION MOVEMENT SUMMARY, 1973-1983

U=UNDUPLICATED COUNT OF PATIENTS SERVED
A=ACTIVES D=ADMISSIONS T=TERMINATIONS



	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Unduplicated Count of Patients Served	9851	10522	11101	11935	11806	11642	10713	10625	10689	10312	9970
Actives	6052	6500	7090	6979	6905	6886	6392	6328	6642	6287	6022
Admissions	5220	5073	5233	5533	5453	5441	5564	4696	4947	4885	4761
Terminations	4368	4618	4633	5684	5529	5522	5057	4759	5062	5155	5030

TABLE 1

PATIENTS ACTIVE 12/31/83, IN STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE AS OF 12/31/83

SEX = TOTAL

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	6022	27	253	418	231	126	680	1685	1107	623	498	374
SLEEP PROBLEMS*	1420	4	16	13	22	21	147	491	317	183	133	73
EATING PROBLEMS	658	1	12	17	5	12	72	224	142	90	55	28
ENURESIS, SOILING	88	6	25	28	2		1	6	5	3	3	9
SEIZURES, CONVULSION	86	1	6	3	2	2	11	22	18	7	9	5
SPEECH PROBLEMS	189	3	24	23	6	6	15	42	21	20	16	13
OTHER PHY-SICAL PROB	803	3	25	22	17	9	73	231	160	112	77	74
INADEQUATE INTELLECT	285	3	34	42	19	16	33	67	33	18	13	7
SOCIAL PRB WITH CHILD	888	7	132	208	77	22	34	134	150	71	33	20
SOCIAL PRB WITH* MATE	1698	21	94	177	117	39	152	522	335	140	69	32
SOCIAL PRB OTHR FAMLY	1188	13	68	131	84	44	170	350	162	77	50	39
SOCIAL PRB OTHR PEOPL	2049	9	89	152	75	57	299	672	380	147	111	58
JOB IMPAIRMENT	1630	2	70	142	75	29	191	590	312	123	76	20
SCHOOL IMPAIRMENT	806	8	168	291	134	52	55	73	18	5	1	1
HOUSEKEEP IMPAIRMENT	597	2	27	58	29	11	33	135	123	79	58	42
SUICIDAL THOUGHTS	688		2	9	23	16	85	267	170	51	43	22
SUICIDE GE -STURE ACT	236			4	14	10	49	85	46	12	9	7
ANXIETY PHOBIAS	1441	2	44	57	35	26	161	487	316	165	103	45
OBSESSIONS COMPULSION	280		4	6	6	10	29	88	64	38	20	15
DEPRESSION INFERIORTY	2286	1	33	81	82	51	255	802	498	256	138	89
HYPOCHON-DRIAS	350		4	7	4	5	23	101	82	65	36	23

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 1 (CONT'D.)

PATIENTS ACTIVE 12/31/83, IN STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE AS OF 12/31/83

SEX = TOTAL

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	1133	1	31	51	35	24	137	382	213	106	92	61
DEPENDENCY CLINGING	563	7	29	23	9	9	65	220	98	52	34	17
GRANDIOSI-TY	236		2	3	3	1	28	72	68	29	22	8
SUSPICION PERSECUTIN	718		2	8	10	12	73	261	166	82	60	44
DELUSIONS	588			1	7	9	67	181	158	70	58	37
HALLUCI-NATIONS	658			3	9	9	90	231	151	74	57	34
ANGER, NEGATIVISM	1682	9	72	167	81	37	276	508	290	119	73	50
ASSAULTIVE ACTS	888	5	26	44	31	24	222	292	144	43	32	25
ALCOHOL ABUSE	817				9	11	208	310	159	64	42	14
SEXUAL PROBLEMS	338		2	8	13	11	66	128	72	19	12	7
NARCOTICS, OTHR DRUGS	711		1	3	18	21	229	327	88	21	1	2
ANTI-SOCIAL	986		11	59	44	37	284	357	140	33	16	5
AGITATION, HYPERACTIV	780	8	87	81	12	13	85	205	127	68	60	34
DISORIENTD MEMORY PRB	395		2	8	4	8	43	99	73	39	50	69
SPEECH DIS -ORGANIZED	248	1	4	7	1	2	28	70	61	31	20	23
SLOWED UP NO EMOTION	502		9	10	10	6	74	184	95	43	39	32
INAPPROPRI -ATENESS	653		8	11	12	8	84	227	145	71	57	30
ROUTINE IMPAIRED	1063	2	18	20	13	21	132	359	232	117	89	60
MISSING	747			4	4	4	11	66	129	171	186	172

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 1A

PATIENTS ACTIVE 12/31/83, IN STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE AS OF 12/31/83

SEX = MALE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	3515	16	185	302	145	83	491	1038	594	291	210	160
SLEEP PROBLEMS*	664	2	12	9	13	13	80	251	147	74	39	24
EATING PROBLEMS	258		7	13	2	4	29	100	43	35	16	9
ENURESIS, SOILING	63	4	21	24	2		1	4	3			4
SEIZURES, CONVULSION	46	1	3	1		1	6	14	8	4	6	2
SPEECH PROBLEMS	126	3	18	16	3	5	12	28	12	13	10	6
OTHER PHY-SICAL PROB	372	2	19	14	10	5	31	113	72	42	33	31
INADEQUATE INTELLECT	196	3	24	27	12	11	27	53	19	9	6	5
SOCIAL PRB WITH CHILD	435	7	100	149	51	14	12	32	44	16	7	3
SOCIAL PRB WITH* MATE	845	11	70	120	65	27	85	226	141	62	25	13
SOCIAL PRB OTHR FAMLY	682	7	50	95	56	25	106	212	71	28	16	16
SOCIAL PRB OTHR PEOPL	1345	7	66	116	52	39	233	461	220	74	52	25
JOB IMPAIRMENT	1071	2	51	110	47	20	136	404	186	64	42	9
SCHOOL IMPAIRMENT	577	6	132	217	90	36	36	46	10	3	1	
HOUSEKEEP IMPAIRMENT	186	1	22	39	14	8	10	36	27	13	5	11
SUICIDAL THOUGHTS	341		2	5	12	7	44	145	77	22	17	10
SUICIDE GE -STURE ACT	103			2	2	5	28	44	12	4	4	2
ANXIETY PHOBIAS	640		29	37	23	14	83	224	127	63	28	12
OBSESSIONS COMPULSION	137		2	5	4	6	14	43	30	22	5	6
DEPRESSION INFERIORTY	1032		21	44	43	25	134	372	215	108	45	25
HYPOCHON-DRIAS	147		3	4		4	7	48	39	25	15	2

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 1A (CONT'D.)

PATIENTS ACTIVE 12/31/83, IN STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE AS OF 12/31/83

SEX = MALE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	621	1	20	29	25	14	96	212	110	52	39	23
DEPENDENCY CLINGING	255	3	20	18	2	6	36	96	39	21	11	3
GRANDIOSI-TY	161		2	2	1	1	22	57	47	16	8	5
SUSPICION PERSECUTIN	442		2	5	7	8	56	182	98	40	26	18
DELUSIONS	356			1	4	6	50	131	100	28	23	13
HALLUCI-NATIONS	403			2	6	7	72	162	88	26	27	13
ANGER, NEGATIVISM	1114	4	53	121	57	22	216	356	167	65	27	26
ASSAULTIVE ACTS	747	3	20	34	27	24	205	251	116	29	17	21
ALCOHOL ABUSE	653				4	9	189	244	119	47	31	10
SEXUAL PROBLEMS	225		1	5	6	7	49	81	49	13	8	6
NARCOTICS, OTHR DRUGS	604			3	11	17	206	276	75	16		
ANTI-SOCIAL	870		11	48	35	34	265	324	112	29	11	1
AGITATION, HYPERACTIV	476	6	68	70	10	10	58	123	67	26	23	15
DISORIENTD MEMORY PRB	213		2	6	2	5	26	65	40	14	23	30
SPEECH DIS -ORGANIZED	153	1	4	2		1	23	51	37	13	9	12
SLOWED UP NO EMOTION	293		6	2	7	5	54	118	46	20	18	17
INAPPROPRI -ATENESS	380		7	6	10	6	59	149	81	31	17	14
ROUTINE IMPAIRED	562	1	14	15	4	15	84	201	120	52	29	27
MISSING	387			3	3	4	7	50	78	76	85	81

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 18

PATIENTS ACTIVE 12/31/83, IN STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE AS OF 12/31/83

SEX = FEMALE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	2507	11	68	116	86	43	189	647	513	332	288	214
SLEEP PROBLEMS*	756	2	4	4	9	8	67	240	170	109	94	49
EATING PROBLEMS	400	1	5	4	3	8	43	124	99	55	39	19
ENURESIS, SOILING	25	2	4	4				2	2	3	3	5
SEIZURES, CONVULSION	40		3	2	2	1	5	8	10	3	3	3
SPEECH PROBLEMS	63		6	7	3	1	3	14	9	7	6	7
OTHER PHY-SICAL PROB	431	1	6	8	7	4	42	118	88	70	44	43
INADEQUATE INTELLECT	89		10	15	7	5	6	14	14	9	7	2
SOCIAL PRB WITH CHILD	453		32	59	26	8	22	102	106	55	26	17
SOCIAL PRB WITH* MATE	853	10	24	57	52	12	67	296	194	78	44	19
SOCIAL PRB OTHR FAMLY	506	6	18	36	28	19	64	138	91	49	34	23
SOCIAL PRB OTHR PEOPL	704	2	23	36	23	18	66	211	160	73	59	33
JOB IMPAIRMENT	559		19	32	28	9	55	186	126	59	34	11
SCHOOL IMPAIRMENT	229	2	36	74	44	16	19	27	8	2		1
HOUSEKEEP IMPAIRMENT	411	1	5	19	15	3	23	99	96	66	53	31
SUICIDAL THOUGHTS	347			4	11	9	41	122	93	29	26	12
SUICIDE GE -STURE ACT	133			2	12	5	21	41	34	8	5	5
ANXIETY PHOBIAS	801	2	15	20	12	12	78	263	189	102	75	33
OBSESSIONS COMPULSION	143		2	1	2	4	15	45	34	16	15	9
DEPRESSION INFERIORTY	1254	1	12	37	39	26	121	430	283	148	93	64
HYPOCHON-DRIAS	203		1	3	4	1	16	53	43	40	21	21

*PROB OR PRB=PROBLEMS: WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 1B (CONT'D.)

PATIENTS ACTIVE 12/31/83, IN STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE AS OF 12/31/83

SEX = FEMALE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	512		11	22	10	10	41	170	103	54	53	38
DEPENDENCY CLINGING	308	4	9	5	7	3	29	124	59	31	23	14
GRANDIOSI-TY	75			1	2		6	15	21	13	14	3
SUSPICION PERSECUTIN	276			3	3	4	17	79	68	42	34	26
DELUSIONS	232				3	3	17	50	58	42	35	24
HALLUCI-NATIONS	255			1	3	2	18	69	63	48	30	21
ANGER, NEGATIVISM	568	5	19	46	24	15	60	152	123	54	46	24
ASSAULTIVE ACTS	141	2	6	10	4		17	41	28	14	15	4
ALCOHOL ABUSE	164				5	2	19	66	40	17	11	4
SEXUAL PROBLEMS	113		1	3	7	4	17	47	23	6	4	1
NARCOTICS, OTHR DRUGS	107		1		7	4	23	51	13	5	1	2
ANTI-SOCIAL	116			11	9	3	19	33	28	4	5	4
AGITATION, HYPERACTIV	304	2	19	11	2	3	27	82	60	42	37	19
DISORIENTD MEMORY PRB	182			2	2	3	17	34	33	25	27	39
SPEECH DIS -ORGANIZED	95			5	1	1	5	19	24	18	11	11
SLOWED UP NO EMOTION	209		3	8	3	1	20	66	49	23	21	15
INAPPROPRI -ATENESS	273		1	5	2	2	25	78	64	40	40	16
ROUTINE IMPAIRED	501	1	4	5	9	6	48	158	112	65	60	33
MISSING	360			1	1		4	16	51	95	101	91

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 2

PATIENTS ACTIVE 12/31/83, IN STATE MENTAL HEALTH FACILITIES
BY CATCHMENT AREA AND TYPE OF CARE

CATCHMENT AREA BY TYPE OF CARE

	TOTAL	DIAMOND HEAD	KALIHI-PALAMA	CENTRAL OAHU	WIND-WARD	LEEWARD	EAST HAWAII	WEST HAWAII	MAUI	KAUAI	OTHER	UNKNOWN
TOTAL	6022	632	682	436	543	545	652	451	541	333	720	487
INPATIENT CARE	303	38	27	20	20	21	12	9	25	20	91	20
OUT-PATIENT	5719	594	655	416	523	524	640	442	516	313	629	467

TABLE 3A

PATIENTS ACTIVE 12/31/83, IN STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE AS OF 12/31/83

TYPE OF CARE = INPATIENT CARE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	303		3	4	13	8	37	109	66	22	28	13
SLEEP PROBLEMS*	68				5	2	9	15	17	9	8	3
EATING PROBLEMS	18					1	3	5		3	1	
ENURESIS, SOILING	3		1				1	1				
SEIZURES, CONVULSION	7							5			2	
SPEECH PROBLEMS	12							3	4		4	1
OTHER PHY-SICAL PROB	24				1		3	7	6	2	2	3
INADEQUATE INTELLECT	12		1		2		2	5	1		1	
SOCIAL PRB WITH CHILD	10		3	1	1				1	1	1	2
SOCIAL PRB WITH* MATE	53		3	1	9	1	10	9	9	3	7	1
SOCIAL PRB OTHR FAMLY	63		3	1	5	3	9	25	8	1	4	4
SOCIAL PRB OTHR PEOPL	160		3	1	3	4	26	57	37	10	14	5
JOB IMPAIRMENT	77		3				19	30	12	3	7	3
SCHOOL IMPAIRMENT	32		3	3	10	6	1	6	1		1	1
HOUSEKEEP IMPAIRMENT	38		3	1		1	2	14	8	4	2	3
SUICIDAL THOUGHTS	30				2	1	3	16	4	2	2	
SUICIDE GE -STURE ACT	24				3	1	3	10	4	1	1	1
ANXIETY PHOBIAS	40		1		1		9	15	7	3	1	3
OBSESSIONS COMPULSION	9						3	3	1	2		
DEPRESSION INFERIORTY	65		1	1	2	3	10	18	18	7	4	1
HYPOCHON-DRIAS	12					1	2	2	6	1		

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 3A (CONT'D.)

PATIENTS ACTIVE 12/31/83, IN STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE AS OF 12/31/83

TYPE OF CARE = INPATIENT CARE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	76		1		3	1	18	24	14	2	11	2
DEPENDENCY CLINGING	30		1				2	15	6	3	2	1
GRANDIOSI-TY	38			1	1		5	11	12	3	5	
SUSPICION PERSECUTIN	86			1	3	1	13	30	22	5	8	3
DELUSIONS	86			1	2	3	12	30	24	5	6	3
HALLUCI-NATIONS	89			2	5	2	16	36	21	2	5	
ANGER, NEGATIVISM	119		3	3	5	4	14	38	25	11	12	4
ASSAULTIVE ACTS	89		2	2	7	2	13	34	13	5	6	5
ALCOHOL ABUSE	30				1		3	8	8	2	6	2
SEXUAL PROBLEMS	15		1	1	2		1	7	3			
NARCOTICS, OTHR DRUGS	27					3	9	12	2			1
ANTI-SOCIAL	67			1	3	5	9	27	16	3	3	
AGITATION, HYPERACTIV	79		2	1	4	3	7	25	19	8	9	1
DISORIENTD MEMORY PRB	42				1	1	4	14	10	1	7	4
SPEECH DIS -ORGANIZED	46		1		1		5	18	11	3	5	2
SLOWED UP NO EMOTION	40						9	14	9	3	5	
INAPPROPRI -ATENESS	99			1	2	2	16	37	23	6	8	4
ROUTINE IMPAIRED	58			1	2	3	12	16	9	5	6	4
MISSING	27							4	9	4	6	4

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 3B

PATIENTS ACTIVE 12/31/83, IN STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE AS OF 12/31/83

TYPE OF CARE= OUTPATIENT CARE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	5719	27	250	414	218	118	643	1576	1041	601	470	361
SLEEP PROBLEMS*	1352	4	16	13	17	19	138	476	300	174	125	70
EATING PROBLEMS	640	1	12	17	5	11	69	219	137	87	54	28
ENURESIS, SOILING	85	6	24	28	2			5	5	3	3	9
SEIZURES, CONVULSION	79	1	6	3	2	2	11	17	18	7	7	5
SPEECH PROBLEMS	177	3	24	23	6	6	15	39	17	20	12	12
OTHER PHYSICAL PROB	779	3	25	22	16	9	70	224	154	110	75	71
INADEQUATE INTELLECT	273	3	33	42	17	16	31	62	32	18	12	7
SOCIAL PRB WITH CHILD	878	7	129	207	76	22	34	134	149	70	32	18
SOCIAL PRB WITH* MATE	1645	21	91	176	108	38	142	513	326	137	62	31
SOCIAL PRB OTHR FAMLY	1125	13	65	130	79	41	161	325	154	76	46	35
SOCIAL PRB OTHR PEOPL	1889	9	86	151	72	53	273	615	343	137	97	53
JOB IMPAIRMENT	1553	2	67	142	75	29	172	560	300	120	69	17
SCHOOL IMPAIRMENT	774	8	165	288	124	46	54	67	17	5		
HOUSEKEEP IMPAIRMENT	559	2	24	57	29	10	31	121	115	75	56	39
SUICIDAL THOUGHTS	658		2	9	21	15	82	251	166	49	41	22
SUICIDE GE-STURE ACT	212			4	11	9	46	75	42	11	8	6
ANXIETY PHOBIAS	1401	2	43	57	34	26	152	472	309	162	102	42
OBSESSIONS COMPULSION	271		4	6	6	10	26	85	63	36	20	15
DEPRESSION INFERIORTY	2221	1	32	80	80	48	245	784	480	249	134	88
HYPOCHONDRIAS	338		4	7	4	4	21	99	76	64	36	23

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 3B (CONT'D.)

PATIENTS ACTIVE 12/31/83, IN STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE AS OF 12/31/83

TYPE OF CARE= OUTPATIENT CARE

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	1057	1	30	51	32	23	119	358	199	104	81	59
DEPENDENCY CLINGING	533	7	28	23	9	9	63	205	92	49	32	16
GRANDIOSI-TY	198		2	2	2	1	23	61	56	26	17	8
SUSPICION PERSECUTIN	632		2	7	7	11	60	231	144	77	52	41
DELUSIONS	502				5	6	55	151	134	65	52	34
HALLUCI-NATIONS	569			1	4	7	74	195	130	72	52	34
ANGER, NEGATIVISM	1563	9	69	164	76	33	262	470	265	108	61	46
ASSAULTIVE ACTS	799	5	24	42	24	22	209	258	131	38	26	20
ALCOHOL ABUSE	787				8	11	205	302	151	62	36	12
SEXUAL PROBLEMS	323		1	7	11	11	65	121	69	19	12	7
NARCOTICS, OTHR DRUGS	684		1	3	18	18	220	315	86	21	1	1
ANTI-SOCIAL	919		11	58	41	32	275	330	124	30	13	5
AGITATION, HYPERACTIV	701	8	85	80	8	10	78	180	108	60	51	33
DISORIENTD MEMORY PRB	353		2	8	3	7	39	85	63	38	43	65
SPEECH DIS -ORGANIZED	202	1	3	7		2	23	52	50	28	15	21
SLOWED UP NO EMOTION	462		9	10	10	6	65	170	86	40	34	32
INAPPROPRI -ATENESS	554		8	10	10	6	68	190	122	65	49	26
ROUTINE IMPAIRED	1005	2	18	19	11	18	120	343	223	112	83	56
MISSING	720			4	4	4	11	62	120	167	180	168

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 4

ADMISSIONS TO STATE MENTAL HEALTH FACILITIES, 1/1/83 TO 12/31/83
BY AGE AND PROBLEMS ON ADMISSION

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	4761	47	275	367	252	162	686	1531	812	316	203	110
SLEEP PROBLEMS*	1266	5	18	12	28	43	172	481	255	126	79	47
EATING PROBLEMS	567	4	11	11	9	17	88	213	109	59	32	14
ENURESIS, SOILING	83	8	30	22	2		1	7	3		3	7
SEIZURES, CONVULSION	75		7	5			8	27	13	4	6	
SPEECH PROBLEMS	148	8	24	14	6	2	15	32	19	13	8	7
OTHER PHY-SICAL PROB	727	4	27	40	26	11	94	223	139	71	53	39
INADEQUATE INTELLECT	159	7	31	20	19	6	19	30	18	5	3	1
SOCIAL PRB WITH CHILD	782	14	146	175	71	15	32	128	117	46	29	9
SOCIAL PRB WITH* MATE	1680	31	121	195	144	47	217	506	265	78	50	26
SOCIAL PRB OTHR FAMLY	837	14	66	92	60	37	145	232	100	39	26	26
SOCIAL PRB OTHR PEOPL	2055	15	81	114	82	85	347	708	361	137	82	43
JOB IMPAIRMENT	1676	3	100	158	98	55	248	565	289	103	48	9
SCHOOL IMPAIRMENT	651	22	161	219	136	25	29	37	17	4	1	
HOUSEKEEP IMPAIRMENT	516	4	31	56	28	9	35	153	83	49	47	21
SUICIDAL THOUGHTS	787		4	24	29	30	129	316	154	56	28	17
SUICIDE GE -STURE ACT	340		2	12	24	20	68	129	48	26	9	2
ANXIETY PHOBIAS	1308	2	52	51	39	40	188	481	247	108	66	34
OBSESSIONS COMPULSION	256		5	4	7	8	32	96	56	26	15	7
DEPRESSION INFERIORTY	1993	4	46	86	77	68	279	737	415	165	76	40
HYPOCHON-DRIAS	262		5	4	4	5	28	107	50	33	19	7

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FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 4 (CONT'D.)

ADMISSIONS TO STATE MENTAL HEALTH FACILITIES, 1/1/83 TO 12/31/83
BY AGE AND PROBLEMS ON ADMISSION

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	994	1	28	39	37	35	164	352	184	80	49	25
DEPENDENCY CLINGING	468	9	35	18	14	13	63	177	83	32	17	7
GRANDIOSI-TY	346		4	4	7	9	54	98	94	38	25	13
SUSPICION PERSECUTIN	782		4	11	22	30	118	297	158	67	48	27
DELUSIONS	682			3	15	19	114	254	139	74	40	24
HALLUCI-NATIONS	704			5	19	24	137	286	117	64	36	16
ANGER, NEGATIVISM	1513	18	86	159	81	43	258	455	238	88	55	32
ASSAULTIVE ACTS	782	8	24	39	38	36	184	261	115	30	21	26
ALCOHOL ABUSE	723			2	16	29	145	275	156	46	41	13
SEXUAL PROBLEMS	256		2	11	16	11	54	98	37	14	11	2
NARCOTICS, OTHR DRUGS	581		1	9	36	43	186	238	52	12	3	1
ANTI-SOCIAL	882	1	17	84	77	44	209	269	113	37	19	12
AGITATION, HYPERACTIV	733	15	69	44	15	15	114	217	110	57	52	25
DISORIENTD MEMORY PRB	405	1	4	4	10	13	62	125	70	34	44	38
SPEECH DIS -ORGANIZED	288	2	2	3	3	5	56	100	60	29	21	7
SLOWED UP NO EMOTION	466	2	5	6	10	15	72	191	90	46	17	12
INAPPROPRI -ATENESS	723		7	11	22	27	123	283	136	64	33	17
ROUTINE IMPAIRED	926	3	16	14	24	31	139	363	180	78	49	29
MISSING	53	1	5	6	5	2	6	16	6	4	1	1

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FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 5

ADMISSIONS TO STATE MENTAL HEALTH FACILITIES, 1/1/83 TO 12/31/83
BY ETHNIC GROUP AND CATCHMENT AREA ON ADMISSION

CATCHMENT AREA BY ETHNIC GROUP OF CLIENT

	TOTAL	DIAMOND HEAD	KALIHI-PALAMA	CENTRAL OAHU	WIND-WARD	LEEWARD	EAST HAWAII	WEST HAWAII	MAUI	KAUAI	OTHER	UNKNOWN
ETHNIC TOTALS	4761	780	605	510	342	403	146	284	431	172	1083	5
CAUCASIAN	1667	328	118	119	107	63	46	153	186	54	490	3
HAWAIIAN	37	2	2	1	4	4	2	3	9	1	9	
CHINESE	135	58	25	11	2	1	1	3	2		32	
FILIPINO	400	15	111	59	18	65	14	11	27	31	49	
JAPANESE	501	114	64	83	40	31	18	11	39	19	81	1
PUERTO RCN	72	2	15	9	2	7	7	2	7	3	18	
PART HAWAN	653	61	84	65	67	104	29	41	59	22	121	
PORTUGUESE	160	12	25	8	11	18	9	18	26	7	26	
AMERICAN INDIAN	8	1	1	1	1	1		1			2	
S. EAST ASIAN	11	1	2	1				1	1		5	
MIXED	717	128	83	113	65	72	17	30	64	27	117	1
OTHER	362	56	70	37	19	33	3	10	8	7	119	
UNKNOWN	37	2	5	3	6	4			3		14	
MISSING	1									1		

TABLE 6

ADMISSIONS TO STATE MENTAL HEALTH FACILITIES, 1/1/83 TO 12/31/83
BY REFERRAL SOURCE AND COMMUNITY MENTAL HEALTH CENTER OR SERVICE

COMPREHENSIVE MH CENTER OR SERVICE BY SOURCE OF REFERRAL

	TOTAL	CENTRAL OAHU	WIND-WARD	LEEWARD	DIAMOND HEAD	KALIHI-PALAMA	MAUI	EAST HAWAII	WEST HAWAII	KAUAI	HSH & CENTRAL SRVS	OTHER SRVS
TOTAL	4761	488	260	443	867	614	422	189	226	252	952	48
SELF FAMILY FRIEND	1380	167	81	176	321	134	152	60	122	114	52	1
PRIVATE PRACTIC PROFESS	166	9	11	12	29	37	15	5	6	18	20	4
OTHER PSYCH. HOSP.	239	35	26	29	71	62	2	1	1	4	8	
COMUNTY M.H. CENTER	96	3	6	15	21	20	5	2	3	5	7	9
OTHER NONPSYC HOSP	441	55	35	44	149	92	12	4	6	19	24	1
COURT ENFORCE CORRECT	1046	47	14	26	51	31	62	24	9	34	748	
OUTPAT M.H. CLINIC	17		1	3	4	1	1		1	1	4	1
SCHOOL SYSTEM	440	95	24	42	77	71	43	48	2	12	22	4
SOCIAL OR COM. AGENCY	222	19	2	9	35	54	45	12	15	2	29	
NON-PSYCH. PHYSICN	133	7	5	10	8	5	25	10	43	13	6	1
CLERGY	17		3		3	7	2			1		1
PUBLIC PSYCH. HOSP.	189	26	28	30	43	44	9	2		4	1	2
OTHER	352	25	24	46	55	56	49	21	18	25	28	5
UNKNOWN	23			1							3	19

TABLE 7

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = TOTAL

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
TOTAL	4112	1430	35	120	343	423	58	576	144	6	8	632	301	35	1	NUMBERS
	28.8	30.9	34.0	33.8	30.3	34.4	31.8	24.6	30.2	25.8	24.4	22.3	27.8	29.2	30.0	MEAN AGE
SLEEP	1033	432	6	35	90	112	17	107	36		3	119	66	10		NUMBERS
PROBLEMS*	34.4	34.3	39.2	40.6	36.5	41.7	41.1	30.7	36.7		25.0	27.4	33.2	29.5		MEAN AGE
EATING	479	205	3	15	54	41	4	47	16		2	63	25	4		NUMBERS
PROBLEMS	33.0	33.6	22.7	44.4	35.4	40.3	37.0	25.9	31.7		25.0	27.0	35.0	31.0		MEAN AGE
ENURESIS,	70	22	1	2	6	5		12	4			15	2	1		NUMBERS
SOILING	16.3	19.5	8.0	12.0	44.3	9.2		10.3	21.2			8.4	11.5	12.0		MEAN AGE
SEIZURES,	62	20	1	2	5	7		6	8			9	3	1		NUMBERS
CONVULSION	29.6	31.3	32.0	60.5	31.2	28.6		33.7	25.6			22.8	22.3	21.0		MEAN AGE
SPEECH	127	31	2	7	8	13	3	19	8			23	10	3		NUMBERS
PROBLEMS	26.9	29.7	49.5	33.9	31.0	30.7	33.0	23.7	21.6			19.7	26.7	23.0		MEAN AGE
OTHER PHY-	669	270	9	28	46	68	8	81	30	1	1	83	39	5		NUMBERS
SICAL PROB	34.3	35.5	38.4	42.7	39.4	42.6	43.4	28.0	36.6	37.0	49.0	24.0	31.5	23.4		MEAN AGE
INADEQUATE	146	21	2	1	12	14	2	40	14		2	28	9	1		NUMBERS
INTELLECT	20.3	18.6	38.0	38.0	18.8	23.8	25.0	20.3	20.3		16.5	18.7	19.0	17.0		MEAN AGE
SOCIAL PRB	735	205	10	23	67	68	10	142	25	1	1	137	38	8		NUMBERS
WITH CHILD	23.0	25.7	31.5	28.4	26.8	27.2	21.7	20.0	20.1	31.0	13.0	17.8	21.1	24.9		MEAN AGE
SOCIAL PRB	1546	528	11	56	143	130	20	222	48	3	4	279	87	14	1	NUMBERS
WITH* MATE	26.4	28.8	32.0	30.4	28.8	31.2	25.4	22.4	26.4	26.3	19.0	20.6	26.3	26.4	30.0	MEAN AGE
SOCIAL PRB	728	194	8	21	68	80	14	122	33		3	135	42	8		NUMBERS
OTHR FAMLY	26.3	27.4	40.1	29.9	29.0	31.8	33.4	22.7	29.7		20.3	20.5	25.0	29.6		MEAN AGE
SOCIAL PRB	1687	585	14	36	123	182	30	238	63	2	5	248	150	11		NUMBERS
OTHR PEOPL	29.4	31.3	33.4	34.4	31.3	35.3	30.7	24.4	31.1	25.0	27.4	23.6	28.1	26.6		MEAN AGE

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7 (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = TOTAL

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
SUSPICION	545	188	5	4	57	77	13	67	17		2	77	38			NUMBERS
PERSECUTIN	33.8	33.3	40.0	37.0	38.6	40.0	37.1	28.7	35.0		25.0	28.6	33.5			MEAN AGE
DELUSIONS	442	150	5	7	42	73	8	55	9		2	51	37	3		NUMBERS
	34.9	34.6	35.0	51.6	38.1	39.4	37.1	30.1	34.6		33.5	30.0	34.6	31.0		MEAN AGE
HALLUCI-	477	138	6	11	57	68	10	64	11	1	2	59	43	7		NUMBERS
NATIONS	32.8	31.0	35.0	43.4	35.3	38.1	32.3	31.6	32.0	31.0	25.0	28.6	32.3	33.3		MEAN AGE
ANGER,	1275	395	9	23	102	105	16	208	54	1	2	257	98	5		NUMBERS
NEGATIVISM	27.3	29.8	33.7	25.1	31.4	32.6	35.6	23.8	29.0	9.0	16.5	22.0	25.7	29.8		MEAN AGE
ASSAULTIVE	621	130	8	6	62	55	14	115	22			130	76	3		NUMBERS
ACTS	28.1	29.7	39.1	20.5	34.9	33.0	32.2	25.9	28.6			23.7	26.2	22.3		MEAN AGE
ALCOHOL	632	261	6	3	33	36	13	96	21	1		93	67	2		NUMBERS
ABUSE	32.0	35.1	36.5	41.0	31.2	31.6	39.5	28.7	31.9	31.0		28.9	27.3	28.0		MEAN AGE
SEXUAL	232	96	4	3	14	11	2	27	5			44	23	3		NUMBERS
PROBLEMS	29.4	31.6	27.2	17.7	29.6	35.5	53.5	28.0	23.6			26.0	27.3	25.0		MEAN AGE
NARCOTICS,	505	149	3	5	30	30	7	88	22	1	1	113	53	3		NUMBERS
OTHR DRUGS	26.4	29.2	27.0	27.0	25.6	27.3	23.9	24.7	24.5	20.0	20.0	24.6	26.4	22.7		MEAN AGE
ANTI-	759	188	7	13	56	58	11	135	29		2	163	92	5		NUMBERS
SOCIAL	26.1	28.7	30.6	41.4	26.0	31.9	26.0	23.1	26.4		26.0	23.5	24.2	21.4		MEAN AGE
AGITATION,	572	211	8	9	46	38	6	92	32	1		92	33	4		NUMBERS
HYPERACTIV	29.2	30.6	46.1	27.3	33.8	40.8	33.5	26.0	31.2	9.0		20.9	26.6	27.2		MEAN AGE
DISORIENTD	309	111	6	12	20	30	9	36	17			27	35	6		NUMBERS
MEMORY PRB	37.4	35.7	47.0	52.7	38.7	45.2	45.1	35.7	41.9			31.3	31.5	30.5		MEAN AGE
SPEECH DIS	177	74	2	3	13	20	4	18	5			23	12	3		NUMBERS
-ORGANIZED	34.2	33.5	49.5	48.7	32.1	39.4	41.2	33.3	40.4			32.0	30.9	20.3		MEAN AGE

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7 (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = TOTAL

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
JOB IMPAIRMENT	1426	513	8	40	106	148	22	207	38	2	6	236	89	10	1	NUMBERS
	27.4	30.4	30.6	31.9	27.4	29.9	26.7	23.2	30.7	24.0	21.0	21.4	28.3	31.2	30.0	MEAN AGE
SCHOOL IMPAIRMENT	610	150	6	20	51	46	11	126	14		2	128	50	6		NUMBERS
	13.7	14.6	15.3	12.7	15.3	16.2	18.2	12.2	11.5		16.5	12.2	14.4	16.0		MEAN AGE
HOUSEKEEP IMPAIRMENT	423	141	6	15	37	45	11	63	15		1	59	28	2		NUMBERS
	31.2	32.6	33.7	38.5	31.3	42.7	43.3	23.7	37.7		23.0	20.6	32.1	32.5		MEAN AGE
SUICIDAL THOUGHTS	654	294	6	21	50	51	11	64	19	1		93	41	3		NUMBERS
	31.7	33.1	23.2	38.0	32.3	35.2	37.8	27.2	38.8	20.0		26.6	29.0	29.0		MEAN AGE
SUICIDE GE -STURE ACT	273	105	3	5	26	27	4	32	3			49	15	4		NUMBERS
	28.6	30.3	26.0	38.0	25.7	34.9	28.5	27.0	20.3			23.9	27.3	32.2		MEAN AGE
ANXIETY PHOBIAS	1153	523	7	34	86	124	16	121	39	2	2	127	65	6	1	NUMBERS
	31.8	32.1	34.3	42.2	34.1	39.5	33.1	26.6	32.9	24.0	16.5	23.6	30.7	29.7	30.0	MEAN AGE
OBSESSIONS COMPULSION	219	98	1	10	12	30	2	14	5			31	14	2		NUMBERS
	33.5	32.9	44.0	35.9	33.9	42.2	56.5	26.6	43.8			28.1	30.1	21.0		MEAN AGE
DEPRESSION INFERIORTY	1775	730	15	61	147	166	25	204	66	2	3	241	103	11	1	NUMBERS
	31.4	33.0	29.1	39.0	30.1	35.5	33.2	27.4	33.9	24.0	18.7	25.5	31.3	32.4	30.0	MEAN AGE
HYPOCHON-DRIAS	215	100	3	8	12	24	3	25	6			20	14			NUMBERS
	35.4	36.3	17.7	45.9	34.2	37.6	27.0	32.4	46.0			28.4	37.2			MEAN AGE
SOCIAL ISOLATION	797	305	6	30	58	116	10	92	23	1	2	93	56	5		NUMBERS
	31.6	32.5	21.5	38.5	30.8	36.1	29.8	27.2	40.3	31.0	20.0	25.7	30.0	30.6		MEAN AGE
DEPENDENCY CLINGING	412	162	4	14	26	37	2	48	17	2	1	63	31	4	1	NUMBERS
	29.0	30.4	28.2	36.9	31.7	37.1	38.0	23.0	33.5	25.0	20.0	20.7	29.3	32.0	30.0	MEAN AGE
GRANDIOSI-TY	221	94	3	1	15	14	4	31	6		1	33	16	3		NUMBERS
	35.1	36.4	38.3	36.0	31.4	40.5	45.0	36.6	39.7		18.0	28.7	32.2	37.0		MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7 (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = TOTAL

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
SLOWED UP	353	126	3	10	29	56	5	29	14		2	47	30	2		NUMBERS
NO EMOTION	33.1	33.5	55.7	44.7	31.0	35.9	31.2	28.6	44.3		20.0	27.5	31.7	25.0		MEAN AGE
INAPPROPRI	487	185	7	6	41	59	7	60	16	1	3	52	43	7		NUMBERS
-ATENESS	32.1	32.1	32.6	35.0	33.5	35.6	37.4	29.7	37.1	31.0	19.3	28.1	32.3	29.7		MEAN AGE
ROUTINE	746	326	7	14	50	89	11	78	34	1	4	89	38	4	1	NUMBERS
IMPAIRED	32.8	32.9	42.3	41.6	32.8	37.5	39.5	29.7	37.5	20.0	19.5	26.4	32.6	38.2	30.0	MEAN AGE
MISSING	43	16		1	5	5		5				5	5	1		NUMBERS
	25.2	25.0		71.0	16.4	27.4		23.4				20.0	24.8	52.0		MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7A

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = MALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTC RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
TOTAL	2436	779	22	59	198	245	32	375	97	5	5	402	202	15		NUMBERS
	27.1	28.8	31.2	31.6	30.4	31.5	35.5	22.9	28.2	24.8	27.8	21.9	26.4	26.1		MEAN AGE
SLEEP PROBLEMS*	491	208	3	15	37	42	11	59	21		1	59	33	2		NUMBERS
	32.5	32.6	33.7	38.9	35.9	38.4	45.1	28.5	31.3		32.0	26.8	31.8	28.0		MEAN AGE
EATING PROBLEMS	196	77	2	5	19	14	2	24	9		2	31	9	2		NUMBERS
	31.9	32.8	21.5	50.6	39.7	39.9	47.0	23.8	30.8		25.0	24.2	35.0	27.0		MEAN AGE
ENURESIS, SOILING	54	18	1	2	4	3		10	4			10	1	1		NUMBERS
	15.0	14.0	8.0	12.0	49.2	9.0		11.3	21.2			8.1	11.0	12.0		MEAN AGE
SEIZURES, CONVULSION	37	9		2	3	5		3	6			6	2	1		NUMBERS
	30.6	32.1		60.5	27.7	31.8		31.3	29.5			24.0	23.0	21.0		MEAN AGE
SPEECH PROBLEMS	83	18	2	3	5	8	2	14	7			16	6	2		NUMBERS
	25.3	23.7	49.5	29.0	32.2	24.2	46.0	25.3	23.6			19.6	27.7	23.0		MEAN AGE
OTHER PHY-SICAL PROB	349	128	7	11	27	37	5	46	19	1	1	46	18	3		NUMBERS
	33.3	34.0	37.9	43.6	41.4	41.1	47.6	24.5	35.3	37.0	49.0	23.6	34.7	22.3		MEAN AGE
INADEQUATE INTELLFCT	107	16	1		10	8	2	33	10		1	19	7			NUMBERS
	19.4	17.6	43.0		21.2	18.0	25.0	20.4	17.5		20.0	18.4	17.9			MEAN AGE
SOCIAL PRB WITH CHILD	399	104	8	14	36	33	4	83	14			84	15	4		NUMBERS
	17.5	17.1	28.0	26.1	23.8	17.8	21.0	15.6	15.1			15.1	14.2	19.7		MEAN AGE
SOCIAL PRB WITH* MATE	822	260	8	28	71	73	11	133	25	2	1	157	49	4		NUMBERS
	24.6	26.7	31.2	28.4	29.7	27.5	27.6	20.7	23.8	24.0	20.0	20.3	22.4	26.2		MEAN AGE
SOCIAL PRB OTHR FAMLY	423	98	5	10	37	49	6	81	19		2	84	27	5		NUMBERS
	23.6	23.5	37.2	22.6	28.6	27.7	34.5	21.8	23.0		19.0	20.2	22.3	24.2		MEAN AGE
SOCIAL PRB OTHR PEOPL	1138	355	9	18	81	119	17	179	52	2	3	184	112	7		NUMBERS
	28.0	29.7	29.2	31.1	30.3	33.3	33.8	23.9	29.7	25.0	33.7	23.5	26.6	26.9		MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7A (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = MALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
SUSPICION	338	110	2	2	36	48	9	47	13		2	48	21			NUMBERS
PERSECUTIN	32.8	31.9	39.0	42.0	40.5	37.6	38.2	29.1	32.3		25.0	28.1	29.9			MEAN AGE
DELUSIONS	266	87	3	1	25	45	7	32	9		2	35	20			NUMBERS
	33.4	33.0	31.3	57.0	42.3	35.6	37.0	28.5	34.6		33.5	29.9	30.6			MEAN AGE
HALLUCI-	306	89	4	5	30	45	10	41	10		2	37	31	2		NUMBERS
NATIONS	31.3	29.6	32.2	37.8	36.3	35.9	32.3	29.1	31.9		25.0	28.5	30.2	24.5		MEAN AGE
ANGER,	833	232	5	15	69	64	11	150	38	1		177	70	1		NUMBERS
NEGATIVISM	26.0	28.2	31.2	17.8	31.6	30.3	39.5	23.0	27.4	9.0		21.9	24.8	29.0		MEAN AGE
ASSAULTIVE	500	104	8	6	51	42	10	95	20			102	60	2		NUMBERS
ACTS	27.7	29.5	39.1	20.5	35.9	30.7	37.9	24.7	27.9			23.7	25.1	21.0		MEAN AGE
ALCOHOL	497	172	5	3	30	31	11	86	21			74	63	1		NUMBERS
ABUSE	31.5	34.6	37.2	41.0	30.9	31.9	39.6	28.8	31.9			28.8	27.2	29.0		MEAN AGE
SEXUAL	146	51	3	3	10	8	2	19	4			28	17	1		NUMBERS
PROBLEMS	30.6	33.3	25.3	17.7	32.6	36.7	53.5	28.5	25.7			28.5	26.8	15.0		MEAN AGE
NARCOTICS,	418	109	3	5	25	28	7	79	18	1		92	50	1		NUMBERS
OTHR DRUGS	26.2	29.4	27.0	27.0	24.4	26.9	23.9	24.4	25.3	20.0		24.7	26.2	25.0		MEAN AGE
ANTI-	631	148	5	8	46	43	10	126	29		1	130	82	3		NUMBERS
SOCIAL	25.4	27.3	28.8	34.9	26.4	30.2	27.3	22.9	26.4		32.0	23.8	23.3	23.3		MEAN AGE
AGITATION,	345	120	5	5	31	18	4	50	22	1		67	21	1		NUMBERS
HYPERACTIV	26.9	28.8	42.2	14.4	34.5	38.6	39.0	22.9	24.6	9.0		20.0	26.0	35.0		MEAN AGE
DISORIENTD	171	55	4	8	10	19	8	18	9			14	23	3		NUMBERS
MEMORY PRB	36.3	33.3	48.2	52.0	46.2	40.6	46.0	31.3	34.7			35.8	30.9	26.3		MEAN AGE
SPEECH DIS	110	49	1	2	7	11	3	9	5			17	5	1		NUMBERS
-ORGANIZED	33.1	31.6	43.0	33.0	33.1	35.7	42.3	31.9	40.4			32.3	34.2	21.0		MEAN AGE

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JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7A (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = MALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
JOB IMPAIRMENT	933	311	6	22	68	99	13	155	31	2	3	162	57	4		NUMBERS
	26.2	28.6	30.0	30.7	26.7	28.9	26.8	22.4	29.0	24.0	23.3	21.5	27.6	26.0		MEAN AGE
SCHOOL IMPAIRMENT	443	109	6	14	35	32	4	96	14			92	38	3		NUMBERS
	13.2	13.2	15.3	12.4	14.2	13.8	21.0	12.6	11.5			12.4	14.7	14.7		MEAN AGE
HOUSEKEEP IMPAIRMENT	164	48	2	4	9	19	7	28	3			33	10	1		NUMBERS
	24.9	25.1	27.5	32.5	29.7	38.0	49.7	15.8	30.7			17.5	22.9	25.0		MEAN AGE
SUICIDAL THOUGHTS	348	153	3	12	25	29	7	39	15	1		41	23			NUMBERS
	31.5	32.7	16.0	38.8	30.8	34.6	41.4	25.9	36.7	20.0		26.8	29.7			MEAN AGE
SUICIDE GE -STURE ACT	133	46	1	3	14	12	2	22	2			23	7	1		NUMBERS
	28.3	29.3	20.0	42.3	24.6	33.7	28.5	25.9	23.0			26.3	30.1	35.0		MEAN AGE
ANXIETY PHOBIAS	517	226	2	16	35	49	8	60	22	2	1	62	33	1		NUMBERS
	29.5	29.8	22.5	42.2	30.0	37.8	30.1	26.2	31.6	24.0	20.0	22.1	27.9	40.0		MEAN AGE
OBSESSIONS COMPULSION	114	50		6	8	18	2	5	2			15	8			NUMBERS
	33.8	33.1		35.3	37.1	41.4	56.5	24.0	37.0			27.5	27.1			MEAN AGE
DEPRESSION INFERIORTY	830	327	7	23	63	77	12	105	39	2	1	121	53			NUMBERS
	30.0	31.8	23.9	39.7	28.1	33.4	38.4	25.9	31.4	24.0	20.0	24.8	30.8			MEAN AGE
HYPOCHON-DRIAS	102	41	2	5	5	11	2	12	4			14	6			NUMBERS
	33.3	33.4	10.0	43.2	33.4	39.5	32.5	29.7	49.5			28.0	30.2			MEAN AGE
SOCIAL ISOLATION	466	166	4	16	30	76	5	59	16		2	59	30	3		NUMBERS
	30.5	31.4	17.7	38.0	29.9	33.4	30.8	27.1	37.9		20.0	25.7	30.4	27.7		MEAN AGE
DEPENDENCY CLINGING	183	66	1	6	9	13	1	29	12	2	1	25	17	1		NUMBERS
	26.7	26.1	12.0	28.5	30.3	34.6	31.0	23.6	33.9	25.0	20.0	21.2	29.5	40.0		MEAN AGE
GRANDIOSI-TY	148	56	3		9	12	3	22	4		1	24	13	1		NUMBERS
	34.1	34.8	38.3		34.6	41.6	47.3	33.2	32.5		18.0	29.2	31.8	35.0		MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7A (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = MALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
SLOWED UP	199	67	2	6	13	34	2	17	7		1	31	17	2		NUMBERS
NO EMOTION	31.0	31.0	71.0	42.2	30.6	34.8	22.5	26.6	31.6		20.0	26.6	29.2	25.0		MEAN AGE
INAPPROPRI	288	107	4	4	24	33	3	38	13		3	34	21	4		NUMBERS
-ATENESS	31.2	30.9	28.5	32.2	35.1	34.7	41.3	28.2	34.2		19.3	27.7	32.5	27.7		MEAN AGE
ROUTINE	402	170	2	5	25	47	7	44	20	1	3	56	20	2		NUMBERS
IMPAIRED	31.2	31.7	40.0	42.2	32.1	34.6	39.3	26.9	34.2	20.0	19.3	26.6	31.7	37.5		MEAN AGE
MISSING	31	10			4	3		5				4	4	1		NUMBERS
	24.6	25.9			16.7	27.7		23.4				21.7	24.5	52.0		MEAN AGE

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 78

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = FEMALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
TOTAL	1676	651	13	61	145	178	26	201	47	1	3	230	99	20	1	NUMBERS
	31.4	33.4	38.8	35.9	30.2	38.5	27.4	27.7	34.2	31.0	18.7	23.0	30.9	31.5	30.0	MEAN AGE
SLEEP PROBLEMS*	542	224	3	20	53	70	6	48	15		2	60	33	8		NUMBERS
	36.1	35.9	44.7	41.9	37.0	43.6	33.8	33.4	44.3		21.5	27.9	34.6	29.9		MEAN AGE
EATING PROBLEMS	283	128	1	10	35	27	2	23	7			32	16	2		NUMBERS
	33.8	34.2	25.0	41.3	33.1	40.5	27.0	28.0	32.9			29.6	35.0	35.0		MEAN AGE
ENURESIS, SOILING	16	4			2	2		2				5	1			NUMBERS
	20.9	44.5			34.5	9.5		5.5				9.0	12.0			MEAN AGE
SEIZURES, CONVULSICN	25	11	1		2	2		3	2			3	1			NUMBERS
	28.1	30.7	32.0		36.5	20.5		36.0	14.0			20.3	21.0			MEAN AGE
SPEECH PROBLEMS	44	13		4	3	5	1	5	1			7	4	1		NUMBERS
	29.8	37.9		37.5	29.0	41.0	7.0	19.2	8.0			20.1	25.2	23.0		MEAN AGE
OTHER PHY-SICAL PROB	320	142	2	17	19	31	3	35	11			37	21	2		NUMBERS
	35.4	36.8	40.5	42.2	36.6	44.4	36.3	32.5	38.7			24.5	28.8	25.0		MEAN AGE
INADEQUATE INTELLECT	39	5	1	1	2	6		7	4		1	9	2	1		NUMBERS
	22.7	22.0	33.0	38.0	7.0	31.5		20.0	27.2		13.0	19.4	23.0	17.0		MEAN AGE
SOCIAL PRB WITH CHILD	336	101	2	9	31	35	6	59	11	1	1	53	23	4		NUMBERS
	29.6	34.6	45.5	32.0	30.3	36.1	22.2	26.1	26.4	31.0	13.0	22.1	25.7	30.0		MEAN AGE
SOCIAL PRB WITH* MATE	724	268	3	28	72	57	9	89	23	1	3	122	38	10	1	NUMBERS
	28.4	30.9	34.0	32.5	28.0	35.9	22.8	24.9	29.2	31.0	18.7	21.1	31.4	26.5	30.0	MEAN AGE
SOCIAL PRB OTHR FAMLY	305	96	3	11	31	31	8	41	14		1	51	15	3		NUMBERS
	29.9	31.3	45.0	36.5	29.6	38.2	32.6	24.5	38.7		23.0	21.0	29.9	38.7		MEAN AGE
SOCIAL PRB OTHR PEOPL	549	230	5	18	42	63	13	59	11		2	64	38	4		NUMBERS
	32.3	33.7	41.0	37.7	33.4	39.2	26.8	26.2	37.5		18.0	24.0	32.4	26.2		MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 78 (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = FEMALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
SUSPICION	207	78	3	2	21	29	4	20	4			29	17			NUMBERS
PERSECUTIN	35.4	35.2	40.7	32.0	35.5	44.0	34.5	27.9	43.7			29.4	38.0			MEAN AGE
DELUSIONS	176	63	2	6	17	28	1	23				16	17	3		NUMBERS
	37.2	36.8	40.5	50.7	31.9	45.5	38.0	32.3				30.2	39.4	31.0		MEAN AGE
HALLUCI-	171	49	2	6	27	23		23	1	1		22	12	5		NUMBERS
NATIONS	35.5	33.5	40.5	48.0	34.1	42.3		36.0	33.0	31.0		28.6	37.8	36.8		MEAN AGE
ANGER,	442	163	4	8	33	41	5	58	16		2	80	28	4		NUMBERS
NEGATIVISM	29.6	32.1	36.7	38.7	31.0	36.1	27.0	25.8	32.9		16.5	22.2	28.1	30.0		MEAN AGE
ASSAULTIVE	121	26			11	13	4	20	2			28	16	1		NUMBERS
ACTS	29.8	30.5			29.9	40.5	18.0	31.4	36.0			23.9	30.2	25.0		MEAN AGE
ALCOHOL	135	89	1		3	5	2	10		1		19	4	1		NUMBERS
ABUSE	33.7	35.7	33.0		34.7	30.0	39.0	28.1		31.0		29.2	27.7	27.0		MEAN AGE
SEXUAL	86	45	1		4	3		8	1			16	6	2		NUMBERS
PROBLEMS	27.5	29.6	33.0		22.2	32.0		26.7	15.0			21.7	29.0	30.0		MEAN AGE
NARCOTICS,	87	40			5	2		9	4		1	21	3	2		NUMBERS
OTHR DRUGS	27.3	28.9			31.6	33.5		27.1	21.0		20.0	24.2	31.0	21.5		MEAN AGE
ANTI-	128	40	2	5	10	15	1	9			1	33	10	2		NUMBERS
SOCIAL	29.8	33.5	35.0	51.8	23.9	36.7	13.0	26.1			20.0	22.4	31.3	18.5		MEAN AGE
AGITATION,	227	91	3	4	15	20	2	42	10			25	12	3		NUMBERS
HYPERACTIV	32.6	32.9	52.7	43.5	32.4	42.7	22.5	29.8	45.7			23.1	27.7	24.7		MEAN AGE
DISORIENTD	138	56	2	4	10	11	1	18	8			13	12	3		NUMBERS
MEMORY PRB	38.7	38.0	44.5	54.2	31.2	53.3	38.0	40.2	50.0			26.5	32.7	34.7		MEAN AGE
SPEECH DIS	67	25	1	1	6	9	1	9				6	7	2		NUMBERS
-ORGANIZED	36.2	37.2	56.0	80.0	30.8	43.9	38.0	34.7				31.0	28.6	20.0		MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7B (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = FEMALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
JOB IMPAIRMENT	493	202	2	18	38	49	9	52	7		3	74	32	6	1	NUMBERS
	29.7	33.1	32.5	33.3	28.7	31.9	26.6	25.7	38.3		18.7	21.2	29.7	34.7	30.0	MEAN AGE
SCHOOL IMPAIRMENT	167	41		6	16	14	7	30			2	36	12	3		NUMBERS
	15.2	18.4		13.7	17.6	21.7	16.6	11.1			16.5	11.7	13.5	17.3		MEAN AGE
HOUSEKEEP IMPAIRMENT	259	93	4	11	28	26	4	35	12		1	26	18	1		NUMBERS
	35.2	36.5	36.7	40.7	31.8	46.1	32.0	30.1	39.4		23.0	24.6	37.2	40.0		MEAN AGE
SUICIDAL THOUGHTS	306	141	3	9	25	22	4	25	4			52	18	3		NUMBERS
	32.1	33.6	30.3	36.9	33.8	36.0	31.5	29.1	46.5			26.4	28.3	29.0		MEAN AGE
SUICIDE GE -STURE ACT	140	59	2	2	12	15	2	10	1			26	8	3		NUMBERS
	28.8	31.0	29.0	31.5	26.9	35.7	28.5	29.4	15.0			21.8	24.9	31.3		MEAN AGE
ANXIETY PHOBIAS	636	297	5	18	51	75	8	61	17		1	65	32	5	1	NUMBERS
	33.6	33.9	39.0	42.3	36.8	40.6	36.0	27.0	34.6		13.0	25.0	33.7	27.6	30.0	MEAN AGE
OBSESSIONS COMPULSION	105	48	1	4	4	12		9	3			16	6	2		NUMBERS
	33.2	32.7	44.0	36.7	27.5	43.2		28.1	48.3			28.6	34.0	21.0		MEAN AGE
DEPRESSION INFERIORTY	945	403	8	38	84	89	13	99	27		2	120	50	11	1	NUMBERS
	32.6	34.1	33.7	38.6	31.6	37.4	28.5	29.0	37.4		18.0	26.2	31.9	32.4	30.0	MEAN AGE
HYPOCHON-DRIAS	113	59	1	3	7	13	1	13	2			6	8			NUMBERS
	37.3	38.2	33.0	50.3	34.9	36.1	16.0	35.0	39.0			29.5	42.5			MEAN AGE
SOCIAL ISOLATION	331	139	2	14	28	40	5	33	7	1		34	26	2		NUMBERS
	33.1	33.8	29.0	39.0	31.7	41.3	28.8	27.4	45.7	31.0		25.6	29.6	35.0		MEAN AGE
DEPENDENCY CLINGING	229	96	3	8	17	24	1	19	5			38	14	3	1	NUMBERS
	30.8	33.3	33.7	43.1	32.4	38.5	45.0	22.3	32.4			20.4	28.9	29.3	30.0	MEAN AGE
GRANDIOSI-TY	73	38		1	6	2	1	9	2			9	3	2		NUMBERS
	37.2	38.9		36.0	26.7	34.0	38.0	45.1	54.0			27.6	34.0	38.0		MEAN AGE

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SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 7B (CONT'D.)

UNDUPLICATED ADMISSIONS TO STATE MENTAL HEALTH FACILITIES,
1/1/83 TO 12/31/83, ETHNIC GROUP BY PROBLEMS AT ADMISSION
INCLUDING MEAN AGE ON ADMISSION

SEX = FEMALE

ETHNIC GROUP OF CLIENT BY PROBLEMS AT ADMISSION

	ETHNIC TOTALS	CAUCA-SIAN	HAWAI-IAN	CHINESE	FILI-PINO	JAPAN-ESE	PUERTO RICAN	PART HAWAN.	PORTU-GUESE	AMERICN INDIAN	S. EAST ASIAN	MIXED	OTHER	UNKNOWN	MISSING	
SLOWED UP NO EMOTION	154	59	1	4	16	22	3	12	7		1	16	13			NUMBERS
	35.9	36.4	25.0	48.5	31.2	37.6	37.0	31.4	57.0		20.0	29.3	34.8			MEAN AGE
INAPPROPRI -ATENESS	199	78	3	2	17	26	4	22	3	1		18	22	3		NUMBERS
	33.4	33.6	38.0	40.5	31.2	36.7	34.5	32.3	49.3	31.0		28.9	32.1	32.3		MEAN AGE
ROUTINE IMPAIRED	344	156	5	9	25	42	4	34	14		1	33	18	2	1	NUMBERS
	34.8	34.2	43.2	41.3	33.4	40.7	39.7	33.3	42.2		20.0	26.2	33.6	39.0	30.0	MEAN AGE
MISSING	12	6		1	1	2						1	1			NUMBERS
	26.7	23.5		71.0	15.0	27.0						13.0	26.0			MEAN AGE

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 8

TERMINATIONS FROM STATE MENTAL HEALTH FACILITIES, 1/1/83 TO 12/31/83
BY AGE AND PROBLEMS ON ADMISSION

AGE AT TERMINATION BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	5030	17	192	349	366	215	598	1594	919	365	240	175
SLEEP PROBLEMS*	1296	1	10	16	31	46	155	487	281	134	83	52
EATING PROBLEMS	578	2	14	3	14	16	80	227	122	51	29	20
ENURESIS, SCILING	69	3	23	15	3	1		9	4		3	8
SEIZURES, CONVULSION	64	1	6	3	4	4	4	24	11	5	1	1
SPEECH PROBLEMS	141	8	20	19	5	8	10	26	14	12	9	10
OTHER PHY-SICAL PROB	724	1	21	39	29	13	82	230	144	58	59	48
INADEQUATE INTELLECT	177	5	17	28	22	10	19	30	26	9	5	6
SOCIAL PRB WITH CHILD	757	2	81	146	85	28	31	144	143	54	28	15
SOCIAL PRB WITH* MATE	1724	8	87	150	160	57	219	531	327	93	57	35
SOCIAL PRB OTHR FAMLY	952	5	42	110	119	80	123	270	122	38	25	18
SOCIAL PRB OTHR PEOPL	1921	7	48	114	118	95	258	671	360	121	87	42
JOB IMPAIRMENT	1596	1	51	103	101	46	222	582	318	102	56	14
SCHOOL IMPAIRMENT	734	9	105	208	213	84	49	42	17	4	2	1
HOUSEKEEP IMPAIRMENT	514	2	14	52	29	14	41	158	84	54	40	26
SUICIDAL THOUGHTS	804		5	21	42	28	115	319	160	65	32	17
SUICIDE GE -STURE ACT	377		2	11	40	19	53	144	57	37	12	2
ANXIETY PHOBIAS	1283		27	41	35	38	161	502	273	110	68	28
OBSESSIONS COMPULSION	256		2	5	6	8	30	101	54	27	17	6
DEPRESSION INFERIORTY	2144	1	26	78	103	84	264	792	456	193	90	57
HYPOCHON-DRIAS	284		6	6	5	5	24	111	56	32	28	11

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SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
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TABLE 8 (CONT'D.)

TERMINATIONS FROM STATE MENTAL HEALTH FACILITIES, 1/1/83 TO 12/31/83
BY AGE AND PROBLEMS ON ADMISSION

AGE AT TERMINATION BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	1046	1	14	36	48	42	143	386	202	88	46	40
DEPENDENCY CLINGING	462	2	16	24	17	18	55	153	103	39	21	14
GRANDIOSI-TY	307		2	2	4	10	49	99	78	32	23	8
SUSPICION PERSECUTIN	819		3	6	20	30	118	336	155	73	52	26
HALLUCI-NATIONS	685			3	11	28	110	294	128	60	30	21
ANGER, NEGATIVISM	1428	8	59	141	113	52	196	455	234	86	51	33
ASSAULTIVE ACTS	685	2	18	44	47	34	115	249	111	27	17	21
ALCOHOL ABUSE	610			2	26	18	80	237	149	47	39	12
SEXUAL PROBLEMS	261		2	7	22	9	31	122	40	17	10	1
NARCOTICS, OTHR DRUGS	478			6	53	41	110	207	53	5	3	
ANTI-SOCIAL	760		15	70	111	47	125	230	99	32	19	12
AGITATION, HYPERACTIV	673	3	50	41	16	24	89	207	119	48	49	27
DISORIENTD MEMORY PRB	367	1	3	2	6	12	40	125	67	30	33	48
SPEECH DIS -ORGANIZED	301	2	3	5	2	9	47	117	63	23	17	13
SLOWED UP NC EMOTION	473		4	4	13	21	64	198	89	45	23	12
INAPPROPRI -ATENESS	732		5	11	16	33	117	299	139	63	32	17
ROUTINE IMPAIRED	990	1	9	16	26	38	131	390	201	85	47	46
MISSING	224	2	9	9	12	6	10	52	37	22	27	38

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SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 9

TERMINATIONS FROM STATE MENTAL HEALTH FACILITIES, 1/1/83 TO 12/31/83
BY COMMUNITY MENTAL HEALTH CENTER OR SERVICE AND DISPOSITION

COMPREHENSIVE MH CENTER OR SERVICE BY DISPOSITION ON TERMINATION

	TOTAL	CENTRAL OAHU	WIND-WARD	LEEWARD	DIAMOND HEAD	KALIHI-PALAMA	MAUI	EAST HAWAII	WEST HAWAII	KAUAI	HSH & CENTRAL SRVS	OTHER SRVS
TOTAL	5030	556	307	475	908	704	354	139	291	226	974	96
PUBLIC PSYCH HOSP	185	14	26	20	26	24	25	17	3	18	10	2
OTHER PSYCH HOSP	105	9	7	4	40	11			3	6	7	18
COMM M.H. CENTER	427	42	20	24	58	50	5	1	4	27	184	12
NURSING HOME	6	2			1		1	1			1	
OTHER NON-PSY INPATNT	65	10	4	4	13	9		1		5	19	
OUTPTNT M.H. CLINICS	39	3	1	3	6	8	1	1		3	6	7
PRIVATE PRACTCE MH PROF	369	42	21	38	100	55	8	14	7	38	34	12
SOCIAL COMMNTY AGENCES	567	14	11	18	20	27	6	1	3	6	448	13
NON-PSY PHYSICN	83	26	2	6	14	6	4	1	6	8	9	1
NOT REFER IN NEED	500	132	33	64	118	48	26	14	19	31	14	1
NOT REFER NOT NED	982	118	72	97	185	101	62	16	90	44	197	
UNKNOWN	1473	120	93	174	270	310	208	72	148	33	7	38
OTHER	321	33	17	28	65	69	11	3	9	17	64	5

NOTE: THE SUMS OF THE COLUMNS WILL NOT NECESSARILY BE EQUAL TO THE TOTAL SINCE A PATIENT MAY HAVE MORE THAN ONE REFERRAL ON TERMINATION.

TABLE 10

UNDUPLICATED COUNT OF PATIENTS SERVED, STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE, 1/1/83 TO 12/31/83

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
TOTAL	9970	39	393	744	578	298	1080	2875	1847	891	696	529
SLEEP PROBLEMS*	2388	3	25	28	44	54	247	850	542	284	193	118
EATING PROBLEMS	1109	3	23	18	19	19	133	404	244	127	73	46
ENURESIS, SOILING	140	8	45	41	5	1	1	9	6	4	5	15
SEIZURES, CONVULSION	130	2	9	6	5	5	13	38	26	9	10	7
SPEECH PROBLEMS	294	11	36	39	14	12	21	59	25	34	24	19
OTHER PHYSICAL PROB	1424	3	44	58	43	18	135	419	288	161	135	120
INADEQUATE INTELLECT	428	8	45	68	42	23	49	86	51	26	18	12
SOCIAL PRB WITH CHILD	1559	8	182	349	161	49	61	258	278	119	59	35
SOCIAL PRB WITH* MATE	3167	24	165	308	269	89	319	962	631	223	116	61
SOCIAL PRB OTHR FAMLY	1940	16	95	229	195	105	255	551	264	107	68	55
SOCIAL PRB OTHR PEOPL	3425	15	119	254	184	123	462	1130	650	230	172	86
JOB IMPAIRMENT	2836	3	109	229	168	60	334	1004	580	195	122	32
SCHOOL IMPAIRMENT	1450	16	236	481	340	122	105	103	35	8	2	2
HOUSEKEEP IMPAIRMENT	964	4	36	101	59	21	60	243	178	119	82	61
SUICIDAL THOUGHTS	1302		6	27	63	27	176	500	291	104	71	37
SUICIDE GE -STURE ACT	521		1	14	52	22	90	186	87	42	18	9
ANXIETY PHOBIAS	2478	2	62	93	66	52	276	891	547	256	166	67
OBSESSIONS COMPULSION	480		4	11	10	14	55	163	110	57	36	20
DEPRESSION INFERIORTY	4072	1	52	155	173	117	462	1445	895	412	215	145
HYPOCHONDRIAS	568		10	13	9	9	35	185	122	90	61	34

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

TABLE 10 (CONT'D.)

UNDUPLICATED COUNT OF PATIENTS SERVED, STATE MENTAL HEALTH FACILITIES
BY PROBLEMS ON ADMISSION AND AGE, 1/1/83 TO 12/31/83

AGE BY PROBLEMS AT ADMISSION

	TOTAL	UNDER 5	05-09	10-14	15-17	18-19	20-24	25-34	35-44	45-54	55-64	OVER 64
SOCIAL ISOLATION	1866	2	35	82	79	52	218	638	369	167	127	97
DEPENDENCY CLINGING	923	8	39	49	23	19	104	334	184	82	50	31
GRANDIOSI-TY	385		2	5	8	5	41	125	132	42	33	12
SUSPICION PERSECUTIN	1189		3	9	27	28	132	447	269	120	94	60
DELUSIONS	921			4	7	24	109	300	228	108	85	56
HALLUCI-NATIONS	1008			5	16	22	139	373	218	108	80	47
ANGER, NEGATIVISM	2741	16	113	253	183	73	401	831	475	178	106	72
ASSAULTIVE ACTS	1344	6	40	79	69	45	279	460	220	68	43	35
ALCOHOL ABUSE	1287			1	32	26	253	503	281	101	70	20
SEXUAL PROBLEMS	559		3	12	35	16	88	232	110	33	21	9
NARCOTICS, OTHR DRUGS	1074			7	62	50	289	489	144	28	3	2
ANTI-SOCIAL	1562		19	119	146	71	362	535	212	54	30	14
AGITATION, HYPERACTIV	1216	10	119	124	26	29	132	330	207	96	89	54
DISORIENTD MEMORY PRB	628	1	4	9	7	17	68	176	114	54	72	106
SPEECH DIS-ORGANIZED	395	3	6	13	2	9	48	121	88	40	32	33
SLOWED UP NO EMOTION	804		9	13	21	21	111	300	155	74	56	44
INAPPROPRI-ATENESS	1051		9	20	25	26	134	388	229	103	77	40
ROUTINE IMPAIRED	1763	3	23	34	35	45	216	626	383	177	122	99
MISSING	921	2	9	12	16	9	14	100	153	183	213	210

*PROB OR PRB=PROBLEMS; WITH MATE=WITH SPOUSE, MATE.
FOR CHILDREN: INADEQUATE INTELLECT=DELAY, SOCIAL PROBLEMS WITH CHILD=PEERS,
SOCIAL PROBLEMS WITH MATE=PARENT/GUARDIAN,
SOCIAL PROBLEMS WITH OTHER FAMILY=SIBS,
SOCIAL PROBLEMS WITH OTHER PEOPLE=OTHER ADULTS,
JOB IMPAIRMENT=ACADEMIC ACHIEVEMENT, HOUSEKEEPING IMPAIRMENT=CHORES.

REFUGEE SCREENING PROJECT

NARRATIVE

The Health Care for Refugees (HCFR) Project is administered by the State of Hawaii Department of Health and is federally-funded by the U.S. Centers for Disease Control (CDC) to provide coordination of health, TB and dental screening to Hawaii's refugee arrivals. The HCFR Project also maintains a refugee health registry to monitor the health status of Hawaii's refugee population and to collect health data for state and federal informational purposes.

Of Hawaii's estimated 7,000 refugee population, approximately 95% have come from Southeast Asia (Vietnam, Laos or Cambodia). In 1982-83, over 93% of Hawaii's 346 new refugee arrivals received health screening, and 96% of those screened had one or more health problems noted at the time of the screening. Some of the more common refugee health problems includes tuberculosis (71% with positive TB skin tests, and 8% with positive chest x-rays), parasites (45%), dental disease (87%), anemia, skin conditions, under-nutrition, and other less prevalent and primarily personal health problems, as well as general lack of adequate knowledge about health, disease and the U.S. health care system. The HCFR Project's findings reflect those generally seen in similiar refugee health screening programs across the country. The initial health care screening system coordinated by the HCFR Project involves the Department of Health and other State agencies, voluntary resettlement and other community agencies, as well as local private medical and dental providers.

TABLE 1

DEMOGRAPHIC BREAKDOWN OF REFUGEES ENTERING HAWAII (Primary Arrivals[a/])

STATE OF HAWAII: October 1, 1982 - September 30, 1983

AGE (years)		Country of Origin								TOTAL	
		VIETNAM		LAOS		CAMBODIAN		OTHER[b/]			
		Sex		Sex		Sex		Sex			
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	Number	Percent
Under 1 year		4	2	1	-	-	-	-	-	7	2.0
1 - 4		12	4	2	4	1	-	4	-	27	7.8
5 - 9		15	14	4	1	-	1	-	-	35	10.0
10 - 14		19	15	3	3	-	1	-	-	41	11.9
15 - 19		32	14	5	3	1	2	-	2	59	17.1
20 - 34		38	41	6	7	3	4	4	5	108	31.2
35 - 44		19	8	1	-	-	-	-	-	28	8.1
45 - 64		11	15	3	3	-	2	1	1	36	10.4
65 or Older		2	2	1	-	-	-	-	-	5	1.5
TOTAL	Number	152	115	26	21	5	10	9	8	346[c/]	---
	Percent	77.2 (267)		13.6 (47)		4.3 (15)		4.9 (17)		---	100.0

a/ - Primary arrivals refers to U.S. arrival via Hawaii; does not include secondary refugee arrivals from other states.
b/ - Afghanistani refugees
c/ - Estimated number of Indochinese refugees living in Hawaii totals 6,800 as of September 1983 (source: U.S. Office of Refugee Resettlement, monthly report for September 1983).

WAIMANO TRAINING SCHOOL AND HOSPITAL DIVISION

WAIMANO TRAINING SCHOOL AND HOSPITAL

SUMMARY

The population of Waimano continues to decline over the years, reflecting the emphasis on deinstitutionalization. However, the decline is not as rapid as in past years due to the difficulty in making successful community placements. As the level of functioning of the retarded patients is lowered, the difficulty in management is conversely increased.

On September 1, 1983, Waimano implemented the Home and Community Based Services Program. There were 16 residents in the program as of December 31, 1983. These residents are under Waimano's supervision and control and statistics will be reflected as in-house and community-based.

Table 1 shows that in the past year of operation, the population decreased by 10 patients, from 385 at the start to 375 at the end. The distribution of population at the end of the year shows 359 in-house and 16 community-based residents. Other data show that patients added during the year declined. New admissions increased from previous years, as did direct discharges. Figures for both Returns from Community Placement (21) and Community Placements (34) show a duplicated count of residents moving in and out of Waimano. Actual revocations of community placements were 13.

Table 2 shows that the trends in the category of classification remain about the same as in previous years, with the predominance of residents in the "Profound" category.

TABLE 1
WAIMANO TRAINING SCHOOL & HOSPITAL
STATISTICAL MOVEMENT OF PATIENTS BY FISCAL YEAR
STATE OF HAWAII: FISCAL YEAR 1982-83

Waimano Population	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Institution								
Patients in in-house residence at start	638	588	535	482	446	423	397	385
Patients in Community-Based Programs at start	-	-	-	-	-	-	-	-
Patients added during the year	31	52	66	84	65	63	53	31
Admissions during the year	10	12	13	13	12	7	6	10
Returns from community placement	21	40	53	71	53	56	47	21
Patients removed from Hospital during the year	81	105	119	120	88	89	65	41
Direct discharge	10	7	4	5	3	2	-	2
Deaths in hospital	13	13	14	6	6	7	8	5
Community placements (Includes ret. to CP)	58	85	101	109	79	80	57	34
Patients in in-house residence at end of year	588	535	482	446	423	397	385	359
Patients in Community-Based Programs at end of year	-	-	-	-	-	-	-	16

TABLE 2
RESIDENT POPULATION, WAIMANO, JUNE 30
DISTRIBUTION BY YFAR AND MEASURED INTELLIGENCE
STATE OF HAWAII: FISCAL YEAR 1982-83

	Resident Population on June 30							
	1976	1977	1978	1979	1980	1981	1982	1983
Total	588	535	482	446	423	397	385	375
I. Mild Educable	23	21	24	7	9	10	13	12
II. Moderate Trainable	94	85	72	35	30	29	26	26
III. Severe	209	193	174	65	53	53	53	59
IV. Profound	255	230	207	338	328	305	293	278
Borderline	5	5	4	-	2	-	-	-
Undetermined Intelligence	2	1	1	1	1	-	-	-